
















































































ÖNEMLİ NOT : Projenizde kullanacağınız standart ölçüleri belirlerken, sarı ile işaretlenmiş kasa dıştan dışa ölçüler (Frame size) ölçülerini kullanınız. Ürünün yerine girebilmesi için genişlikte 3 cm yükseklikte 1.5 cm fazladan yer ayrılmalıdır.

WOOD ULTIMATE DOUBLE HUNG

Mas. Opg. (mm)	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	2-10 1/2 (876)	3-0 1/2 (927)	3-2 1/2 (978)	3-4 1/2 (1029)	3-8 1/2 (1130)	4-0 1/2 (1232)
Rgh. Opg. (mm)	1-10 3/8 (568)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
Frame Size (mm)	1-9 3/8 (543)	2-1 3/8 (645)	2-5 3/8 (746)	2-7 3/8 (797)	2-9 3/8 (848)	2-11 3/8 (899)	3-1 3/8 (949)	3-5 3/8 (1051)	3-9 3/8 (1153)
Glass Size (mm)	16 (406)	20 (508)	24 (610)	26 (660)	28 (711)	30 (762)	32 (813)	36 (914)	40 (1016)

2-10 9/16 (878) 2-9 1/2 (851) 2-9 (838) 12 (305)									
3-2 9/16 (980) 3-1 1/2 (953) 3-1 (940) 14 (356)									
3-6 9/16 (1081) 3-5 1/2 (1054) 3-5 (1041) 16 (406)									
3-10 9/16 (1183) 3-9 1/2 (1156) 3-9 (1143) 18 (457)									
4-2 9/16 (1284) 4-1 1/2 (1257) 4-1 (1245) 20 (508)									
4-6 9/16 (1386) 4-5 1/2 (1359) 4-5 (1346) 22 (559)									
4-10 9/16 (1488) 4-9 1/2 (1461) 4-9 (1448) 24 (610)									
5-2 9/16 (1589) 5-1 1/2 (1562) 5-1 (1549) 26 (660)									
5-6 9/16 (1691) 5-5 1/2 (1664) 5-5 (1651) 28 (711)									

NOTES:

E These windows meet national egress codes for fire evacuation. Local codes may differ.

MULTIPLE ASSEMBLY CONVERSIONS

ROUGH OPENING

Width

Add all frame sizes plus 1" (25)

Height

Add frame sizes plus 1/2" (13)

MASONRY OPENING WITH BMC

Width

Add all frame sizes plus 3 1/8" (79)

Height

Add frame sizes plus 1 9/16" (39)

Wood Ultimate Double Hung: **WUDH**

WOOD ULTIMATE DOUBLE HUNG

Mas. Opg. (mm)	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	2-10 1/2 (876)	3-0 1/2 (927)	3-2 1/2 (978)	3-4 1/2 (1029)	3-8 1/2 (1130)	4-0 1/2 (1232)
Rgh. Opg. (mm)	1-10 3/8 (568)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
Frame Size (mm)	1-9 3/8 (543)	2-1 3/8 (645)	2-5 3/8 (746)	2-7 3/8 (797)	2-9 3/8 (848)	2-11 3/8 (899)	3-1 3/8 (949)	3-5 3/8 (1051)	3-9 3/8 (1153)
Glass Size (mm)	16 (406)	20 (508)	24 (610)	26 (660)	28 (711)	30 (762)	32 (813)	36 (914)	40 (1016)

5-10 9/16 (1792) 5-9 1/2 (1765) 5-9 (1753) 30 (762)									
6-2 9/16 (1894) 6-1 1/2 (1867) 6-1 (1854) 32 (813)									
6-6 9/16 (1996) 6-5 1/2 (1969) 6-5 (1956) 34 (864)									
6-10 9/16 (2097) 6-9 1/2 (2070) 6-9 (2057) 36 (914)									
7-4 9/16 (2300) 7-5 1/2 (2273) 7-5 (2261) 40 (1016)									
7-10 9/16 (2402) 7-9 1/2 (2375) 7-9 (2362) 42 (1067)									

COTTAGE STYLE

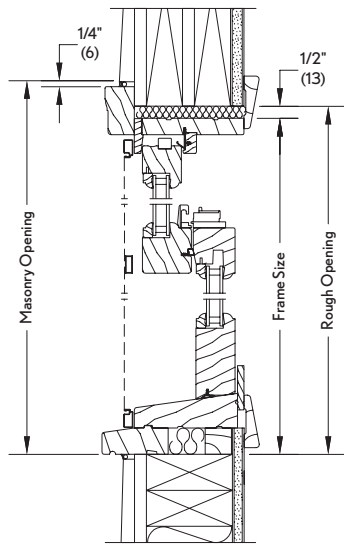
Mas. Opg. (mm)	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	2-10 1/2 (876)	3-0 1/2 (927)	3-2 1/2 (978)	3-4 1/2 (1029)	3-8 1/2 (1130)	4-0 1/2 (1232)
Rgh. Opg. (mm)	1-10 3/8 (568)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
Frame Size (mm)	1-9 3/8 (543)	2-1 3/8 (645)	2-5 3/8 (746)	2-7 3/8 (797)	2-9 3/8 (848)	2-11 3/8 (899)	3-1 3/8 (949)	3-5 3/8 (1051)	3-9 3/8 (1153)
Glass Size (mm)	16 (406)	20 (508)	24 (610)	26 (660)	28 (711)	30 (762)	32 (813)	36 (914)	40 (1016)

5-10 9/16 (1792) 5-9 1/2 (1765) 5-9 (1753) 24 (610) / 36 (914)									
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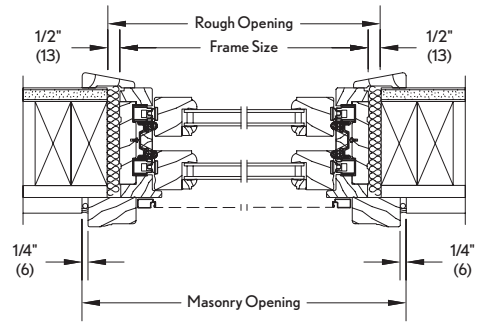
NOT TO SCALE

WOOD ULTIMATE DOUBLE HUNG

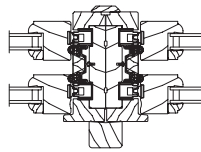
CONSTRUCTION DETAILS



HEAD JAMB AND SILL - OPERATOR



JAMB - OPERATOR



VERTICAL MULLION OPERATOR

WOOD ULTIMATE DOUBLE HUNG / SINGLE HUNG

ENERGY DATA	U-Factor	SHGC	VT	CR	ENERGY STAR®
11/16" Insulating Glass Air	0.45	0.55	0.58	43	
11/16" Insulating Glass Air LoE-180™	0.33	0.48	0.56	53	
11/16" Insulating Glass Argon LoE-180™	0.29	0.48	0.56	56	N
11/16" Insulating Glass Argon LoE-180™ w/Combination	0.21	0.44	0.51	67	N
11/16" Insulating Glass LoE ² -272® Air	0.32	0.30	0.51	53	NC, SC
11/16" Insulating Glass LoE ² -272® Argon	0.29	0.29	0.51	56	N, NC, SC
11/16" Insulating Glass LoE ² -272® Argon w/Combination	0.21	0.29	0.46	67	N, NC, SC
11/16" Insulating Glass LoE ³ 366® Air	0.32	0.20	0.46	53	NC, SC, S
11/16" Insulating Glass LoE ³ 366® Argon	0.28	0.20	0.46	57	N, NC, SC, S
11/16" Insulating Glass LoE ³ 366® Argon w/Combination	0.20	0.21	0.42	68	N, NC, SC, S
7/8" Tri-Pane LoE-180™ Argon LoE-180™	0.25	0.40	0.49	64	N, NC
7/8" Tri-Pane LoE-180™ Krypton-Argon LoE-180™	0.22	0.40	0.49	67	N, NC
7/8" Tri-Pane LoE ² -272® Argon LoE ² -272®	0.24	0.25	0.40	64	N, NC, SC, S
7/8" Tri-Pane LoE ² -272® Krypton-Argon LoE ² -272®	0.22	0.25	0.40	67	N, NC, SC, S
7/8" Tri-Pane LoE ³ 366® Argon LoE-180™	0.24	0.18	0.40	64	N, NC, SC, S
7/8" Tri-Pane LoE ³ 366® Krypton-Argon LoE-180™	0.22	0.18	0.40	67	N, NC, SC, S

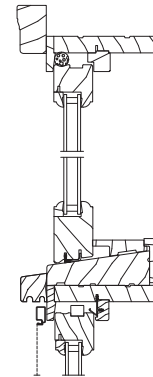
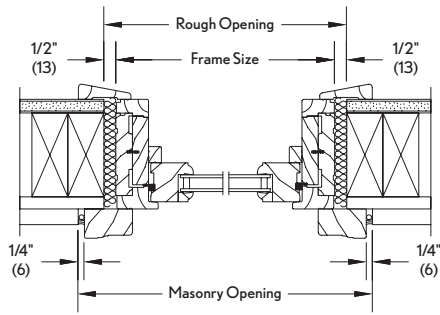
WOOD ULTIMATE DOUBLE HUNG TRANSOM UNIT

Mas. Opg. (mm)	2-0 1/2 (622)	2-4 1/2 (724)	2-8 1/2 (826)	2-10 1/2 (876)	3-0 1/2 (927)	3-2 1/2 (978)	3-4 1/2 (1029)	3-8 1/2 (1130)	4-0 1/2 (1232)
Rgh. Opg. (mm)	1-10 3/8 (568)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
Frame Size (mm)	1-9 3/8 (543)	2-1 3/8 (645)	2-5 3/8 (746)	2-7 3/8 (797)	2-9 3/8 (848)	2-11 3/8 (899)	3-1 3/8 (949)	3-5 3/8 (1051)	3-9 3/8 (1153)
Glass Size (mm)	16 (406)	20 (508)	24 (610)	26 (660)	28 (711)	30 (762)	32 (813)	36 (914)	40 (1016)



Wood Ultimate Double Hung Transom: **WUDHT**

CONSTRUCTION DETAILS



TRANSOM MULLER OVER WOOD ULTIMATE DOUBLE HUNG



















































WOOD ULTIMATE DOUBLE HUNG TRANSOM

ENERGY DATA	U-Factor	SHGC	VT	CR	ENERGY STAR®
11/16" Insulating Glass Air	0.45	0.59	0.62	44	
11/16" Insulating Glass LoE ² -272® Air	0.31	0.32	0.54	55	NC
11/16" Insulating Glass LoE ² -272® Argon	0.28	0.31	0.54	59	N, NC
11/16" Insulating Glass LoE ³ 366® Air	0.31	0.21	0.49	55	NC, SC, S
11/16" Insulating Glass LoE ³ 366® Argon	0.27	0.21	0.49	59	N, NC, SC, S

NOTES:


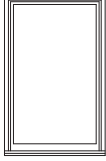
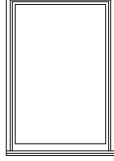
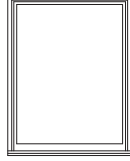
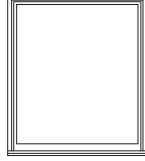

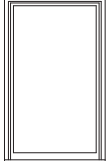
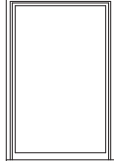
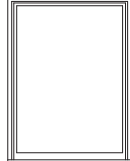
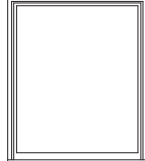

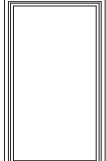
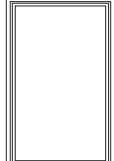
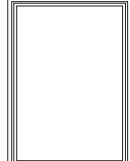
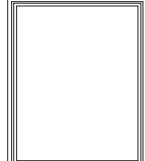
- Transom heights do not include subsill. Add 1 3/32" (28) for stand alone heights if subsill is wanted.

WOOD ULTIMATE DOUBLE HUNG PICTURE UNIT

Mas. Opg. (mm)	3-8 1/2 (1130)	4-4 1/2 (1334)	4-8 1/2 (1435)	5-4 1/2 (1638)	6-0 1/2 (1842)
Rgh. Opg. (mm)	3-6 3/8 (1076)	4-2 3/8 (1280)	4-6 3/8 (1381)	5-2 3/8 (1584)	5-10 3/8 (1788)
Frame Size (mm)	3-5 3/8 (1051)	4-1 3/8 (1254)	4-5 3/8 (1356)	5-1 3/8 (1559)	5-9 3/8 (1762)
Glass Size (mm)	36 (914)	44 (1118)	48 (1219)	56 (1422)	64 (1626)
3-6 9/16 (1081) 3-5 1/2 (1054) 3-5 (1043) 33 5/16 (846)	 WUDHP4038	 WUDHP4838	 WUDHP5238	 WUDHP6038	 WUDHP6838
3-10 9/16 (1183) 3-9 1/2 (1156) 3-9 (1143) 37 5/16 (948)	 WUDHP4042	 WUDHP4842	 WUDHP5242	 WUDHP6042	 WUDHP6842
4-2 9/16 (1284) 4-1 1/2 (1257) 4-1 (1245) 41 5/16 (1049)	 WUDHP4046	 WUDHP4846	 WUDHP5246	 WUDHP6046	 WUDHP6846
4-6 9/16 (1386) 4-5 1/2 (1359) 4-5 (1346) 45 5/16 (1151)	 WUDHP4050	 WUDHP4850	 WUDHP5250	 WUDHP6050	 WUDHP6850
4-10 9/16 (1488) 4-9 1/2 (1461) 4-9 (1448) 49 5/16 (1253)	 WUDHP4054	 WUDHP4854	 WUDHP5254	 WUDHP6054	 WUDHP6854
5-2 9/16 (1589) 5-1 1/2 (1562) 5-1 (1549) 53 5/16 (1354)	 WUDHP4058	 WUDHP4858	 WUDHP5258	 WUDHP6058	 WUDHP6858
5-6 9/16 (1691) 5-5 1/2 (1664) 5-5 (1651) 57 5/16 (1456)	 WUDHP4062	 WUDHP4862	 WUDHP5262	 WUDHP6062	 WUDHP6862
5-10 9/16 (1792) 5-9 1/2 (1765) 5-9 (1753) 61 5/16 (1557)	 WUDHP4066	 WUDHP4866	 WUDHP5266	 WUDHP6066	 WUDHP6866
6-2 9/16 (1894) 6-1 1/2 (1867) 6-1 (1854) 65 5/16 (1659)	 WUDHP4070	 WUDHP4870	 WUDHP5270	 WUDHP6070	 WUDHP6870
6-6 9/16 (1996) 6-5 1/2 (1969) 6-5 (1956) 69 5/16 (1761)	 WUDHP4074	 WUDHP4874	 WUDHP5274	 WUDHP6074	 WUDHP6874

Wood Ultimate Double Hung Picture: **WUDHP**

WOOD ULTIMATE DOUBLE HUNG PICTURE UNIT

Mas. Opg. (mm)	3-8 1/2 (1130)	4-4 1/2 (1334)	4-8 1/2 (1435)	5-4 1/2 (1638)	6-0 1/2 (1842)
Rgh. Opg. (mm)	3-6 3/8 (1076)	4-2 3/8 (1280)	4-6 3/8 (1381)	5-2 3/8 (1584)	5-10 3/8 (1788)
Frame Size (mm)	3-5 3/8 (1051)	4-1 3/8 (1254)	4-5 3/8 (1356)	5-1 3/8 (1559)	5-9 3/8 (1762)
Glass Size (mm)	36 (914)	44 (1118)	48 (1219)	56 (1422)	64 (1626)
6-10 9/16 (2097) 6-9 1/2 (2070) 6-9 (2057) 73 5/16 (1862)	 WUDHP4078	 WUDHP4878	 WUDHP5278	 WUDHP6078	 WUDHP6878
7-6 9/16 (2300) 7-5 1/2 (2273) 7-5 (2261) 81 5/16 (2065)	 WUDHP4086	 WUDHP4886	 WUDHP5286	 WUDHP6086	 WUDHP6886
7-10 9/16 (2402) 7-9 1/2 (2375) 7-9 (2363) 85 5/16 (2069)	 WUDHP4090	 WUDHP4890	 WUDHP5290	 WUDHP6090	 WUDHP6890

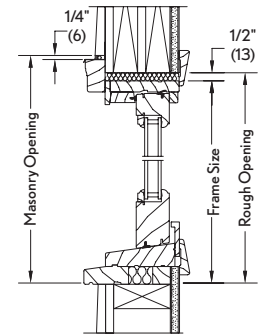
WOOD ULTIMATE DOUBLE HUNG 1-5/8" PICTURE UNIT

ENERGY DATA	U-Factor	SHGC	VT	CR	ENERGY STAR®
1 1/16" Insulating Glass Air	0.45	0.57	0.61	44	
1 1/16" Insulating Glass LoE ² -272 [®] Air	0.32	0.31	0.53	56	NC
1 1/16" Insulating Glass LoE ² -272 [®] Argon	0.28	0.31	0.53	59	N, NC
1 1/16" Insulating Glass LoE ³ 366 [®] Air	0.31	0.21	0.48	56	NC, SC, S
1 1/16" Insulating Glass LoE ³ 366 [®] Argon	0.28	0.20	0.48	60	N, NC, SC, S

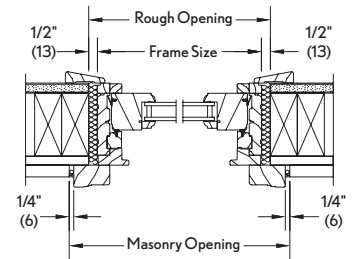
WOOD ULTIMATE DOUBLE HUNG 2" PICTURE UNIT

ENERGY DATA	U-Factor	SHGC	VT	CR	ENERGY STAR
1" Insulating Glass Air	0.43	0.55	0.60	46	
1" Insulating Glass Air LoE-180™	0.32	0.49	0.57	56	N
1" Insulating Glass Argon LoE-180™	0.29	0.50	0.57	60	N
1" Insulating Glass LoE ² -272 [®] Air	0.31	0.30	0.52	57	NC, SC
1" Insulating Glass LoE ² -272 [®] Argon	0.27	0.30	0.52	61	N, NC, SC
1" Insulating Glass LoE ³ 366 [®] Air	0.30	0.20	0.47	58	N, NC, SC, S
1" Insulating Glass LoE ³ 366 [®] Argon	0.27	0.20	0.47	61	N, NC, SC, S
1" Tri-Pane LoE-180™ Argon LoE-180™	0.22	0.42	0.51	70	N
1" Tri-Pane LoE-180™ Krypton-Argon LoE-180™	0.19	0.42	0.51	72	N
1" Tri-Pane LoE ² -272 [®] Argon LoE ² -272 [®]	0.20	0.26	0.42	72	N, NC, SC, S
1" Tri-Pane LoE ² -272 [®] Krypton-Argon LoE ² -272 [®]	0.18	0.26	0.42	72	N, NC, SC, S
1" Tri-Pane LoE ³ 366 [®] Argon LoE-180™	0.21	0.19	0.42	71	N, NC, SC, S
1" Tri-Pane LoE ³ 366 [®] Krypton-Argon LoE-180™	0.18	0.18	0.42	72	N, NC, SC, S

CONSTRUCTION DETAILS



2" (51) SASH PICTURE UNIT HEAD JAMB



2" (51) SASH PICTURE UNIT JAMB

NOTES:

- 2" Picture Sash shown. 15/8" also available.

CLAD ULTIMATE DOUBLE HUNG

Mas. Opg. (mm)	1-9 7/8 (556)	2-1 7/8 (657)	2-5 7/8 (759)	2-7 7/8 (810)	2-9 7/8 (860)	2-11 7/8 (911)	3-1 7/8 (962)	3-5 7/8 (1064)	3-9 7/8 (1165)
Rgh. Opg. (mm)	1-10 3/8 (568)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
Frame Size (mm)	1-9 3/8 (543)	2-1 3/8 (645)	2-5 3/8 (746)	2-7 3/8 (797)	2-9 3/8 (848)	2-11 3/8 (899)	3-1 3/8 (949)	3-5 3/8 (1051)	3-9 3/8 (1153)
Glass Size (mm)	16 (406)	20 (508)	24 (610)	26 (660)	28 (711)	30 (762)	32 (813)	36 (914)	40 (1016)
2-8 5/8 (829) 2-8 7/8 (835) 2-8 3/8 (822) 12 (305)									
CUDH1612	CUDH2012	CUDH2412	CUDH2612	CUDH2812	CUDH3012	CUDH3212	CUDH3612	CUDH4012	
3-0 5/8 (930) 3-0 7/8 (937) 3-0 3/8 (924) 14 (356)									
CUDH1614	CUDH2014	CUDH2414	CUDH2614	CUDH2814	CUDH3014	CUDH3214	CUDH3614	CUDH4014	
3-4 5/8 (1032) 3-4 7/8 (1038) 3-4 3/8 (1026) 16 (406)									
CUDH1616	CUDH2016	CUDH2416	CUDH2616	CUDH2816	CUDH3016	CUDH3216	CUDH3616	CUDH4016	
3-8 5/8 (1133) 3-8 7/8 (1140) 3-8 3/8 (1127) 18 (457)									
CUDH1618	CUDH2018	CUDH2418	CUDH2618	CUDH2818	CUDH3018	CUDH3218	CUDH3618	CUDH4018	
4-0 5/8 (1235) 4-0 7/8 (1241) 4-0 3/8 (1229) 20 (508)									
CUDH1620	CUDH2020	CUDH2420	CUDH2620	CUDH2820	CUDH3020	CUDH3220	CUDH3620	CUDH4020	
4-4 5/8 (1337) 4-4 7/8 (1343) 4-4 3/8 (1330) 22 (559)									
CUDH1622	CUDH2022	CUDH2422	CUDH2622	CUDH2822	CUDH3022	CUDH3222	CUDH3622	CUDH4022	
4-8 5/8 (1438) 4-8 7/8 (1445) 4-8 3/8 (1432) 24 (610)									
CUDH1624	CUDH2024	CUDH2424	CUDH2624	CUDH2824	CUDH3024	CUDH3224	CUDH3624	CUDH4024	
5-0 5/8 (1540) 5-0 7/8 (1546) 5-0 3/8 (1534) 26 (660)									
CUDH1626	CUDH2026	CUDH2426	CUDH2626	CUDH2826	CUDH3026	CUDH3226 E	CUDH3626 E	CUDH4026 E	
5-4 5/8 (1641) 5-4 7/8 (1648) 5-4 3/8 (1635) 28 (711)									
CUDH1628	CUDH2028	CUDH2428	CUDH2628	CUDH2828	CUDH3028 E	CUDH3228 E	CUDH3628 E	CUDH4028 E	

MULTIPLE ASSEMBLY CONVERSIONS

NOTES:

- Please contact your local Marvin® representative for masonry openings that include casings and subsills.

E These windows meet national egress codes for fire evacuation. Local codes may differ.

ROUGH OPENING		MASONRY OPENING WITHOUT BMC	
Width	Height	Width	Height
Add all frame sizes plus 1" (25)	Add frame sizes plus 1/2" (13)	Add all frame sizes plus 1/2" (13)	Add frame sizes plus 1/4" (6)

Clad Ultimate Double Hung: **CUDH**

CLAD ULTIMATE DOUBLE HUNG

Mas. Opg. (mm)	1-9 7/8 (556)	2-1 7/8 (657)	2-5 7/8 (759)	2-7 7/8 (810)	2-9 7/8 (860)	2-11 7/8 (911)	3-1 7/8 (962)	3-5 7/8 (1064)	3-9 7/8 (1165)
Rgh. Opg. (mm)	1-10 3/8 (568)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
Frame Size (mm)	1-9 3/8 (543)	2-1 3/8 (645)	2-5 3/8 (746)	2-7 3/8 (797)	2-9 3/8 (848)	2-11 3/8 (899)	3-1 3/8 (949)	3-5 3/8 (1051)	3-9 3/8 (1153)
Glass Size (mm)	16 (406)	20 (508)	24 (610)	26 (660)	28 (711)	30 (762)	32 (813)	36 (914)	40 (1016)

5-8 5/8 (1743) 5-8 7/8 (1749) 5-8 9/8 (1737) 30 (762)									
6-0 5/8 (1845) 6-0 7/8 (1851) 6-0 3/8 (1838) 32 (813)									
6-4 5/8 (1946) 6-4 7/8 (1953) 6-4 3/8 (1940) 34 (864)									
6-8 5/8 (2048) 6-8 7/8 (2054) 6-8 3/8 (2042) 36 (914)									
7-4 5/8 (2251) 7-4 7/8 (2257) 7-4 3/8 (2245) 40 (1016)									
7-8 5/8 (2353) 7-8 7/8 (2359) 7-8 3/8 (2346) 42 (1067)									

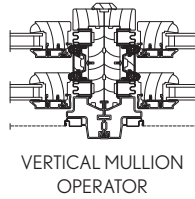
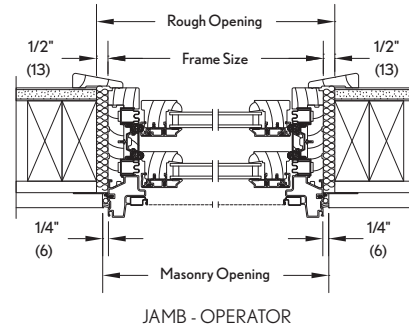
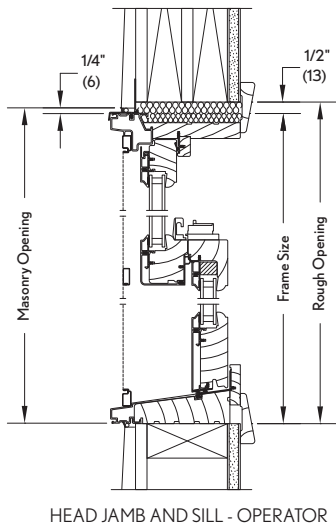
COTTAGE STYLE

Mas. Opg. (mm)	1-9 7/8 (556)	2-1 7/8 (657)	2-5 7/8 (759)	2-7 7/8 (810)	2-9 7/8 (860)	2-11 7/8 (911)	3-1 7/8 (962)	3-5 7/8 (1064)	3-9 7/8 (1165)
Rgh. Opg. (mm)	1-10 3/8 (568)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
Frame Size (mm)	1-9 3/8 (543)	2-1 3/8 (645)	2-5 3/8 (746)	2-7 3/8 (797)	2-9 3/8 (848)	2-11 3/8 (899)	3-1 3/8 (949)	3-5 3/8 (1051)	3-9 3/8 (1153)
Glass Size (mm)	16 (406)	20 (508)	24 (610)	26 (660)	28 (711)	30 (762)	32 (813)	36 (914)	40 (1016)

5-8 5/8 (1743) 5-8 7/8 (1749) 5-8 3/8 (1737) 24 (610) / 36 (914)									
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NOT TO SCALE

CLAD ULTIMATE DOUBLE HUNG



CLAD ULTIMATE DOUBLE HUNG/SINGLE HUNG

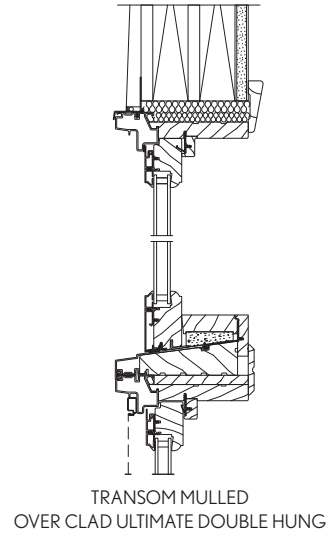
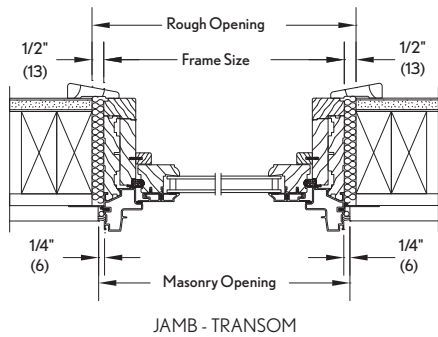
ENERGY DATA	U-Factor	SHGC	VT	CR	ENERGY STAR®
11/16" Insulating Glass Air	0.46	0.56	0.58	43	
11/16" Insulating Glass Air LoE-180™	0.34	0.49	0.56	52	
11/16" Insulating Glass Argon LoE-180™	0.31	0.49	0.56	55	N
11/16" Insulating Glass LoE ² -272 [®] Air	0.33	0.30	0.51	53	SC
11/16" Insulating Glass LoE ² -272 [®] Air w/Combination	0.26	0.30	0.47	69	N, NC, SC
11/16" Insulating Glass LoE ² -272 [®] Argon	0.30	0.30	0.51	56	N, NC, SC
11/16" Insulating Glass LoE ² -272 [®] Argon w/Combination	0.24	0.30	0.47	70	N, NC, SC
11/16" Insulating Glass LoE ³ 366 [®] Air	0.33	0.20	0.46	53	SC, S
11/16" Insulating Glass LoE ³ 366 [®] Air w/Combination	0.25	0.22	0.42	70	N, NC, SC, S
11/16" Insulating Glass LoE ³ 366 [®] Argon	0.29	0.20	0.46	56	N, NC, SC, S
7/8" Tri-Pane LoE-180™ Argon LoE-180™	0.26	0.40	0.50	63	N, NC
7/8" Tri-Pane LoE-180™ Krypton-Argon LoE-180™	0.23	0.40	0.50	66	N, NC
7/8" Tri-Pane LoE ² -272 [®] Argon LoE ² -272 [®]	0.25	0.25	0.41	64	N, NC, SC, S
7/8" Tri-Pane LoE ² -272 [®] Krypton-Argon LoE ² -272 [®]	0.23	0.25	0.41	66	N, NC, SC, S
7/8" Tri-Pane LoE ³ 366 [®] Argon LoE-180™	0.25	0.18	0.40	64	N, NC, SC, S
7/8" Tri-Pane LoE ³ 366 [®] Krypton-Argon LoE-180™	0.23	0.18	0.40	66	N, NC, SC, S

CLAD ULTIMATE DOUBLE HUNG TRANSOM UNIT

Mas. Opg. (mm)	1-9 7/8 (556)	2-1 7/8 (657)	2-5 7/8 (759)	2-7 7/8 (810)	2-9 7/8 (860)	2-11 7/8 (911)	3-1 7/8 (962)	3-5 7/8 (1064)	3-9 7/8 (1165)
Rgh. Opg. (mm)	1-10 3/8 (568)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
Frame Size (mm)	1-9 3/8 (543)	2-1 3/8 (645)	2-5 3/8 (746)	2-7 3/8 (797)	2-9 3/8 (848)	2-11 3/8 (899)	3-1 3/8 (949)	3-5 3/8 (1051)	3-9 3/8 (1153)
Glass Size (mm)	16 (406)	20 (508)	24 (610)	26 (660)	28 (711)	30 (762)	32 (813)	36 (914)	40 (1016)

17 15/16 (506)									
18 3/16 (513)									
17 11/16 (500)									
14 (356)									
2-3 15/16 (710)									
2-4 3/16 (716)									
2-3 11/16 (703)									
22 (559)									

CONSTRUCTION DETAILS



CLAD ULTIMATE DOUBLE HUNG TRANSOM

ENERGY DATA	U-Factor	SHGC	VT	CR	ENERGY STAR®
11/16" Insulating Glass Air	0.46	0.60	0.63	44	
11/16" Insulating Glass Air LoE-180™	0.33	0.53	0.61	55	
11/16" Insulating Glass Argon LoE-180™	0.29	0.53	0.61	58	N
11/16" Insulating Glass LoE ² -272® Air	0.32	0.32	0.55	55	NC
11/16" Insulating Glass LoE ² -272® Argon	0.28	0.32	0.55	59	N, NC
11/16" Insulating Glass LoE ³ 366® Air	0.32	0.22	0.50	56	NC, SC, S
11/16" Insulating Glass LoE ³ 366® Argon	0.28	0.21	0.50	59	N, NC, SC, S




























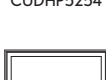
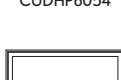
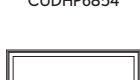


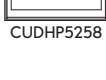
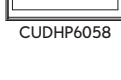
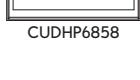



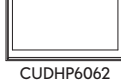
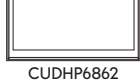










NOTES:

- Please contact your local Marvin® representative for masonry openings that include casings and subsills.


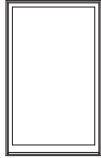

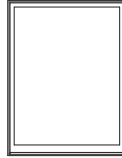
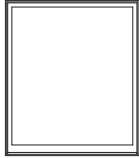

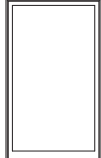

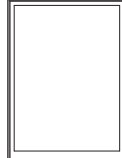
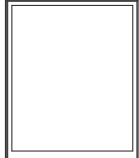

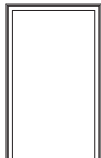

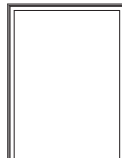
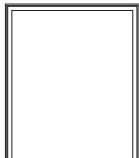
Clad Ultimate Double Hung Transom: **CUDHT**

CLAD ULTIMATE DOUBLE HUNG PICTURE UNIT

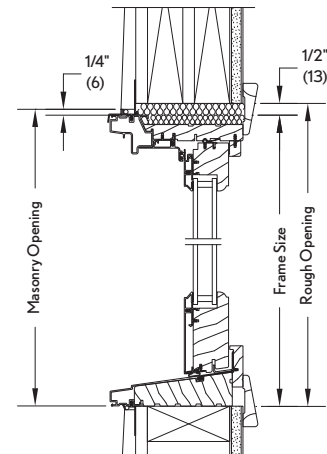
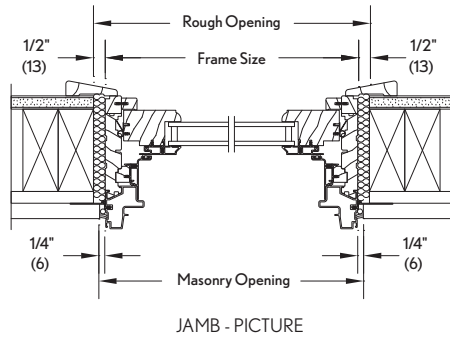
Mas. Opg. (mm)	3-5 7/8 (1064)	4-1 7/8 (1267)	4-5 7/8 (1368)	5-1 7/8 (1572)	5-9 7/8 (1775)
Rgh. Opg. (mm)	3-6 3/8 (1076)	4-2 3/8 (1280)	4-6 3/8 (1381)	5-2 3/8 (1584)	5-10 3/8 (1788)
Frame Size (mm)	3-5 3/8 (1051)	4-1 3/8 (1254)	4-5 3/8 (1356)	5-1 3/8 (1559)	5-9 3/8 (1762)
Glass Size (mm)	36 (914)	44 (1118)	48 (1219)	56 (1422)	64 (1626)

3-4 5/8 (1032) 3-4 7/8 (1038) 3-4 3/8 (1026) 33 3/8 (848)					
3-8 5/8 (1133) 3-8 7/8 (1140) 3-8 3/8 (1127) 37 3/8 (949)					
4-0 5/8 (1235) 4-0 7/8 (1241) 4-0 3/8 (1229) 41 3/8 (1051)					
4-4 5/8 (1337) 4-4 7/8 (1343) 4-4 3/8 (1330) 45 3/8 (1153)					
4-8 5/8 (1438) 4-8 7/8 (1445) 4-8 3/8 (1432) 49 3/8 (1254)					
5-0 5/8 (1540) 5-0 7/8 (1546) 5-0 3/8 (1534) 53 3/8 (1356)					
5-4 5/8 (1641) 5-4 7/8 (1648) 5-4 3/8 (1635) 57 3/8 (1457)					
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6-0 5/8 (1845) 6-0 7/8 (1851) 6-0 3/8 (1838) 65 3/8 (1661)					
6-4 5/8 (1946) 6-4 7/8 (1953) 6-4 3/8 (1940) 69 3/8 (1762)					

CLAD ULTIMATE DOUBLE HUNG PICTURE UNIT

Mas. Opg. (mm)	3-5 7/8 (1064)	4-1 7/8 (1267)	4-5 7/8 (1368)	5-1 7/8 (1572)	5-9 7/8 (1775)
Rgh. Opg. (mm)	3-6 3/8 (1076)	4-2 3/8 (1280)	4-6 3/8 (1381)	5-2 3/8 (1584)	5-10 3/8 (1788)
Frame Size (mm)	3-5 3/8 (1051)	4-1 3/8 (1254)	4-5 3/8 (1356)	5-1 3/8 (1559)	5-9 3/8 (1762)
Glass Size (mm)	36 (914)	44 (1118)	48 (1219)	56 (1422)	64 (1626)
6-8 5/8 (2048)					
6-8 7/8 (2054)					
6-8 3/8 (2042)					
73 3/8 (1864)					
7-4 5/8 (2251)					
7-4 7/8 (2257)					
7-4 3/8 (2245)					
77 3/8 (1965)					
7-8 5/8 (2353)					
7-8 7/8 (2359)					
7-8 3/8 (2346)					
81 3/8 (2067)					

CONSTRUCTION DETAILS



CLAD ULTIMATE DOUBLE HUNG PICTURE UNIT

ENERGY DATA	U-Factor	SHGC	VT	CR	ENERGY STAR®
1" Insulating Glass Air	0.44	0.56	0.60	46	
1" Insulating Glass Air LoE-180™	0.32	0.49	0.58	56	N
1" Insulating Glass Argon LoE-180™	0.29	0.49	0.58	60	N
1" Insulating Glass LoE ² -272 [®] Air	0.32	0.31	0.53	57	NC
1" Insulating Glass LoE ² -272 [®] Argon	0.28	0.30	0.53	60	N, NC, SC
1" Insulating Glass LoE ³ 366 [®] Air	0.31	0.21	0.47	57	NC, SC, S
1" Insulating Glass LoE ³ 366 [®] Argon	0.28	0.20	0.47	60	N, NC, SC, S
1" Tri-Pane LoE-180™ Argon LoE-180™	0.22	0.42	0.52	69	N
1" Tri-Pane LoE-180™ Krypton-Argon LoE-180™	0.19	0.42	0.52	70	N
1" Tri-Pane LoE ² -272 [®] Argon LoE ² -272 [®]	0.21	0.27	0.43	69	N, NC, SC, S
1" Tri-Pane LoE ² -272 [®] Krypton-Argon LoE ² -272 [®]	0.19	0.27	0.43	70	N, NC, SC, S
1" Tri-Pane LoE ³ 366 [®] Argon LoE-180™	0.21	0.19	0.42	69	N, NC, SC, S
1" Tri-Pane LoE ³ 366 [®] Krypton-Argon LoE-180™	0.19	0.19	0.42	70	N, NC, SC, S

NOTES:

- Please contact your local Marvin® representative for masonry openings that include casings and subsills.

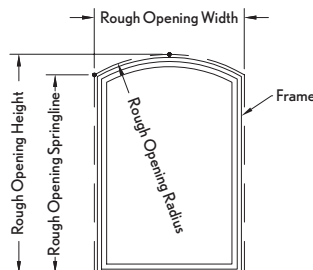
Clad Ultimate Double Hung Picture: **CUDHP**

WOOD ULTIMATE DOUBLE HUNG ROUND TOP

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES DIRECT GLAZE

Rgh. Opg. (mm)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)
Rgh. Opg Rad. (mm)	2-0 1/2 (622)	2-0 1/2 (622)	2-6 1/2 (775)	2-6 1/2 (775)	2-6 1/2 (775)	3-4 1/2 (1029)	3-4 1/2 (1029)
	1-0 1/2 (318) 0-8 5/8 (219)	0-7 7/32 (183)	0-7 7/8 (200)	0-7 3/16 (183)	0-6 1/2 (165)	0-7 11/16 (195)	0-6 1/2 (165)
	WUDHRT2511	WUDHRT2911	WUDHRT3111	WUDHRT3311	WUDHRT3511	WUDHRT3711	WUDHRT4111
	1-6 1/2 (470) 1-2 5/8 (372)	1-1 7/32 (336)	1-1 7/8 (352)	1-1 3/16 (335)	1-0 1/2 (318)	1-1 11/16 (348)	1-0 1/2 (318)
	WUDHRT2519	WUDHRT2919	WUDHRT3119	WUDHRT3319	WUDHRT3519	WUDHRT3719	WUDHRT4119
	2-0 1/2 (622) 1-8 5/8 (524)	1-7 7/32 (488)	1-7 7/8 (505)	1-7 3/16 (487)	1-6 1/2 (470)	1-7 11/16 (500)	1-6 1/2 (470)
	WUDHRT2523	WUDHRT2923	WUDHRT3123	WUDHRT3323	WUDHRT3523	WUDHRT3723	WUDHRT4123
	3-0 1/2 (927) 2-8 5/8 (829)	2-7 7/32 (793)	2-7 7/8 (810)	2-7 3/16 (792)	2-6 1/2 (775)	2-7 11/16 (805)	2-6 1/2 (775)
	WUDHRT2535	WUDHRT2935	WUDHRT3135	WUDHRT3335	WUDHRT3535	WUDHRT3735	WUDHRT4135
	4-0 1/2 (1232) 3-8 5/8 (1133)	3-7 7/32 (1098)	3-7 7/8 (1114)	3-7 3/16 (1097)	3-6 1/2 (1080)	3-7 11/16 (1110)	3-6 1/2 (1080)
	WUDHRT2547	WUDHRT2947	WUDHRT3147	WUDHRT3347	WUDHRT3547	WUDHRT3747	WUDHRT4147
	5-0 1/2 (1537) 4-8 5/8 (1438)	4-7 7/32 (1403)	4-7 7/8 (1419)	4-7 3/16 (1402)	4-6 1/2 (1384)	4-7 11/16 (1414)	4-6 1/2 (1384)
	WUDHRT2559	WUDHRT2959	WUDHRT3159	WUDHRT3359	WUDHRT3559	WUDHRT3759	WUDHRT4159
	6-0 1/2 (1842) 5-8 5/8 (1743)	5-7 7/32 (1707)	5-7 7/8 (1724)	5-7 3/16 (1707)	5-6 1/2 (1689)	5-7 11/16 (1719)	5-6 1/2 (1689)
Rgh. Opg. (mm)	WUDHRT2571	WUDHRT2971	WUDHRT3171	WUDHRT3371	WUDHRT3571	WUDHRT3771	WUDHRT4171
Rgh. Opg. Spln. (mm)							

MEASUREMENT IDENTIFICATION RT6 EYEBROW ABOVE SPRINGLINE



NOTES:

- If these units are NOT used as transoms, ADD 1 3/32" (28) to the rough opening height for subsill.

Wood Ultimate Double Hung Round Top: **WUDHRT**

WOOD ULTIMATE DOUBLE HUNG ROUND TOP

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES DIRECT GLAZE











































Rgh. Opg. (mm)	3-10 3/8 (1178)	4-3 3/4 (1314)	4-11 3/4 (1518)	5-7 3/4 (1721)	6-3 3/4 (1924)
Rgh. Opg Rad. (mm)	3-4 1/2 (1029)	3-4 1/2 (1029)	4-6 1/2 (1384)	6-0 1/2 (1842)	6-0 1/2 (1842)
Rgh. Opg. (mm)	1-6 1/2 (470)	0-9 5/32 (233)	0-9 9/16 (243)	0-10 1/8 (257)	0-7 13/16 (198)
Rgh. Opg. Rad. (mm)	0-11 7/32 (285)	1-3 5/32 (385)	1-3 9/16 (395)	1-4 1/8 (410)	1-11 1/16 (351)
	WUDHRT4519	WUDHRT5119	WUDHRT5919	WUDHRT6719	WUDHRT7519
	2-0 1/2 (622)	1-3 5/32 (385)	1-3 9/16 (395)	1-4 1/8 (410)	1-11 1/16 (351)
	1-5 7/32 (437)	WUDHRT4523	WUDHRT5123	WUDHRT6723	WUDHRT7523
	3-0 1/2 (927)	2-3 5/32 (690)	2-3 9/16 (700)	2-4 1/8 (714)	2-11 1/16 (656)
	2-5 7/32 (742)	WUDHRT4535	WUDHRT5135	WUDHRT6735	WUDHRT7535
	4-0 1/2 (1232)	3-3 5/32 (995)	3-3 9/16 (1005)	3-4 1/8 (1019)	3-11 1/16 (960)
	3-5 7/32 (1047)	WUDHRT4547	WUDHRT5147	WUDHRT5947	WUDHRT7547
	5-0 1/2 (1537)	4-3 5/32 (1299)	4-3 9/16 (1310)	4-4 1/8 (1324)	4-11 1/16 (1265)
	4-5 7/32 (1352)	WUDHRT4559	WUDHRT5159	WUDHRT5959	WUDHRT7559
	6-0 1/2 (1842)	5-3 5/32 (1604)	5-3 9/16 (1614)	5-4 1/8 (1629)	5-11 1/16 (1570)
	5-5 7/32 (1657)	WUDHRT4571	WUDHRT5171	WUDHRT6771	WUDHRT7571
Rgh. Opg. (mm)					
Rgh. Opg. Splth. (mm)					

RT29 ELLIPTICAL STANDARD SIZES DIRECT GLAZE

Rgh. Opg. (mm)	4-3 3/4 (1314)	4-11 3/4 (1518)	5-7 3/4 (1721)	6-3 3/4 (1924)
1-5 5/16 (456)	WUDHRT5118	WUDHRT5918	WUDHRT6718	WUDHRT7518

WOOD ULTIMATE DOUBLE HUNG ROUND TOP

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES ONE WIDE OPERATOR

Rgh. Opg. (mm)	2-2 3/8 (670)	2-6 3/8 (772)	2-10 3/8 (873)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
Rgh. Opg Rad. (mm)	2-0 1/2 (622)	2-0 1/2 (622)	2-6 1/2 (775)	3-4 1/2 (1029)	3-4 1/2 (1029)	3-4 1/2 (1029)
Right Opg. (mm)	3-5 1/8 (1045)	3-6 17/32 (1080)	3-6 9/16 (1081)	3-6 1/8 (1070)	3-7 9/32 (1099)	3-8 9/16 (1132)
Right Opg. Spln. (mm)	3-19/32 (947)	3-1 1/4 (946)	3-19/32 (947)	3-15/16 (947)	3-19/32 (947)	3-19/32 (947)
						
	WUDHRT2014	WUDHRT2414	WUDHRT2814	WUDHRT3214	WUDHRT3614	WUDHRT4014
Right Opg. (mm)	3-9 1/8 (1146)	3-10 17/32 (1183)	3-10 9/16 (1183)	3-10 1/8 (1172)	3-11 9/32 (1201)	4-0 9/16 (1233)
Right Opg. Spln. (mm)	3-5 9/32 (1048)	3-5 1/4 (1048)	3-5 9/32 (1048)	3-5 5/16 (1049)	3-5 9/32 (1049)	3-5 9/32 (1048)
						
	WUDHRT2016	WUDHRT2416	WUDHRT2816	WUDHRT3216	WUDHRT3616	WUDHRT4016
Right Opg. (mm)	4-1 1/8 (1248)	4-2 17/32 (1283)	4-2 9/16 (1285)	4-2 1/8 (1273)	4-3 9/32 (1302)	4-4 9/16 (1335)
Right Opg. Spln. (mm)	3-9 9/32 (1150)	3-9 1/4 (1149)	3-9 9/32 (1150)	3-9 5/16 (1151)	3-9 9/32 (1150)	3-9 9/32 (1150)
						
	WUDHRT2018	WUDHRT2418	WUDHRT2818	WUDHRT3218	WUDHRT3618	WUDHRT4018
Right Opg. (mm)	4-5 1/8 (1349)	4-6 17/32 (1385)	4-6 9/16 (1386)	4-6 1/8 (1375)	4-7 9/32 (1404)	4-8 9/16 (1437)
Right Opg. Spln. (mm)	4-1 9/32 (1252)	4-1 1/4 (1251)	4-1 9/32 (1252)	4-1 5/16 (1253)	4-1 9/32 (1252)	4-1 9/32 (1251)
						
	WUDHRT2020	WUDHRT2420	WUDHRT2820	WUDHRT3220	WUDHRT3620	WUDHRT4020
Right Opg. (mm)	4-9 1/8 (1451)	4-10 17/32 (1486)	4-10 9/16 (1488)	4-10 1/8 (1477)	4-11 9/32 (1505)	5-0 9/16 (1538)
Right Opg. Spln. (mm)	4-5 9/32 (1353)	4-5 1/4 (1352)	4-5 9/32 (1353)	4-5 5/16 (1354)	4-5 9/32 (1353)	4-5 9/32 (1353)
						
	WUDHRT2022	WUDHRT2422	WUDHRT2822	WUDHRT3222	WUDHRT3622	WUDHRT4022
Right Opg. (mm)	5-1 1/8 (1553)	5-2 17/32 (1588)	5-2 9/16 (1589)	5-2 1/8 (1578)	5-3 9/32 (1607)	5-4 9/16 (1640)
Right Opg. Spln. (mm)	4-9 9/32 (1455)	4-9 1/4 (1454)	4-9 9/32 (1455)	4-9 5/16 (1455)	4-9 9/32 (1455)	4-9 9/32 (1455)
						
	WUDHRT2024	WUDHRT2424	WUDHRT2824	WUDHRT3224	WUDHRT3624	WUDHRT4024
Right Opg. (mm)	5-5 1/8 (1654)	5-6 17/32 (1690)	5-6 9/16 (1691)	5-6 1/8 (1680)	5-7 9/32 (1709)	5-8 9/16 (1741)
Right Opg. Spln. (mm)	5-1 9/32 (1556)	5-1 1/4 (1556)	5-1 9/32 (1556)	5-15/16 (1557)	5-1 9/32 (1557)	5-1 9/32 (1556)
						
	WUDHRT2026	WUDHRT2426	WUDHRT2826	WUDHRT3226	WUDHRT3626	WUDHRT4026

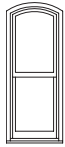
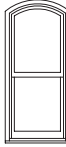




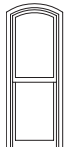
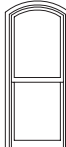




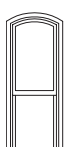
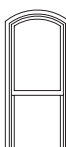




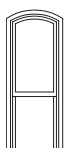





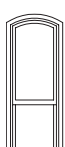
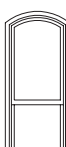




NOTES:

E These windows meet national egress codes for fire evacuation. Local codes may differ.

Wood Ultimate Double Hung Round Top: **WUDHRT**

WOOD ULTIMATE DOUBLE HUNG ROUND TOP

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES ONE WIDE OPERATOR

Rgh. Opg. (mm)	2-2 3/8 (670)	2-6 3/8 (772)	2-10 3/8 (837)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)					
Rgh. Opg Rad. (mm)	2-0 1/2 (622)	2-0 1/2 (622)	2-6 1/2 (775)	3-4 1/2 (1029)	3-4 1/2 (1029)	3-4 1/2 (1029)					
5-9 1/8 (1756) 5-5 9/32 (1658)	 WUDHRT2028	5-10 17/32 (1791) 5-5 1/4 (1657)	 WUDHRT2428	5-10 9/16 (1792) 5-5 9/32 (1658)	 WUDHRT2828	5-10 1/8 (1781) 5-5 5/16 (1659)	 WUDHRT3228 E	5-11 9/32 (1810) 5-5 9/32 (1658)	 WUDHRT3628 E	6-0 9/16 (1843) 5-5 9/32 (1658)	 WUDHRT4028 E
6-1 1/8 (1858) 5-9 9/32 (1760)	 WUDHRT2030	6-2 17/32 (1893) 5-9 1/4 (1759)	 WUDHRT2430	6-2 9/16 (1894) 5-9 9/32 (1759)	 WUDHRT2830 E	6-2 1/8 (1883) 5-9 5/16 (1760)	 WUDHRT3230 E	6-3 9/32 (1912) 5-9 9/32 (1760)	 WUDHRT3630 E	6-4 9/16 (1945) 5-9 9/32 (1759)	 WUDHRT4030 E
6-5 1/8 (1959) 6-1 9/32 (1861)	 WUDHRT2032	6-6 17/32 (1994) 6-1 1/4 (1860)	 WUDHRT2432	6-6 9/16 (1996) 6-1 9/32 (1861)	 WUDHRT2832 E	6-6 1/8 (1985) 6-1 5/16 (1862)	 WUDHRT3232 E	6-7 9/32 (2013) 6-1 9/32 (1861)	 WUDHRT3632 E	6-8 9/16 (2046) 6-1 9/32 (1861)	 WUDHRT4032 E
6-9 1/8 (2061) 6-5 9/32 (1963)	 WUDHRT2034	6-10 17/32 (2096) 6-5 1/4 (1962)	 WUDHRT2434 E	6-10 9/16 (2097) 6-5 9/32 (1963)	 WUDHRT2834 E	6-10 1/8 (2086) 6-5 5/16 (1963)	 WUDHRT3234 E	6-11 9/32 (2115) 6-5 9/32 (1963)	 WUDHRT3634 E	7-0 9/16 (2148) 6-5 9/32 (1963)	 WUDHRT4034 E
7-1 1/8 (2162) 6-9 9/32 (2064)	 WUDHRT2036	7-2 17/32 (2198) 6-9 1/4 (2064)	 WUDHRT2436 E	7-2 9/16 (2199) 6-9 9/32 (2064)	 WUDHRT2836 E	7-2 1/8 (2188) 6-9 5/16 (2065)	 WUDHRT3236 E	7-3 9/32 (2217) 6-9 9/32 (2065)	 WUDHRT3636 E	7-4 9/16 (2249) 6-9 9/32 (2064)	 WUDHRT4036 E

WOOD ROUND TOP

RT1 TRUE HALF CIRCLE STANDARD SIZES DIRECT GLAZE

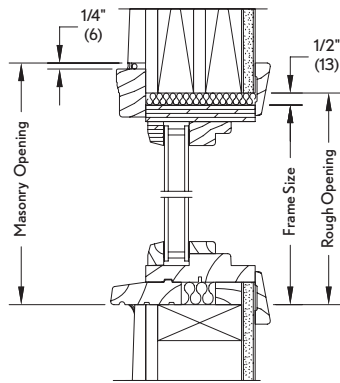
Rgh. Opg. (mm)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)
	1-3 3/16 (386)	1-4 3/16 (411)	1-5 3/16 (437)	1-6 3/16 (462)	1-7 3/16 (487)	1-9 3/16 (538)
	WUDHRT2914	WUDHRT3115	WUDHRT3316	WUDHRT3517	WUDHRT3718	WUDHRT4120
Rgh. Opg. (mm)	3-10 3/8 (1178)	4-3 3/4 (1314)	4-11 3/4 (1518)	5-7 3/4 (1721)	6-3 3/4 (1924)	
	1-11 3/16 (689)	2-1 7/8 (657)	2-5 7/8 (759)	2-9 7/8 (860)	3-1 7/8 (962)	
	WUDHRT4522	WUDHRT5025	WUDHRT5828	WUDHRT6632	WUDHRT7437	

WOOD ULTIMATE DOUBLE HUNG TRANSOM SERIES

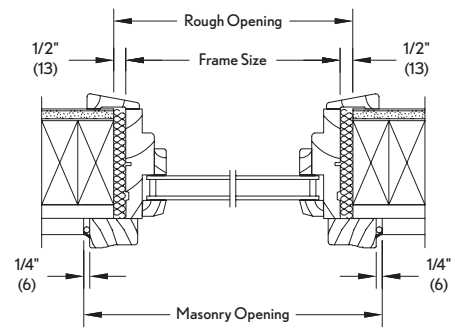
RT1 TRUE HALF CIRCLE IN SASH

Rgh. Opg. (mm)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)
Rgh. Opg Rad. (mm)	1-1 3/16 (335)	1-3 3/16 (386)	1-4 3/16 (411)	1-5 3/16 (437)	1-6 3/16 (462)	1-7 3/16 (487)
	1-1 3/16 (335)	1-3 3/16 (386)	1-4 3/16 (411)	1-5 3/16 (437)	1-6 3/16 (462)	1-7 3/16 (487)
	WUDHRT2015	WUDHRT2417	WUDHRT2618	WUDHRT2819	WUDHRT3020	WUDHRT3221
Rgh. Opg. (mm)	3-6 3/8 (1076)	3-10 3/8 (1178)	4-3 3/4 (1314)	4-11 3/4 (1518)	5-7 3/4 (1721)	6-3 3/4 (1924)
Rgh. Opg Rad. (mm)	1-9 3/16 (538)	1-11 3/16 (689)	2-1 7/8 (657)	2-5 7/8 (759)	2-9 7/8 (860)	3-1 7/8 (962)
	1-9 3/16 (538)	1-11 3/16 (689)	2-1 7/8 (657)	2-5 7/8 (759)	2-9 7/8 (860)	3-1 7/8 (962)
	WUDHRT3623	WUDHRT4025	WUDHRT5027	WUDHRT5831	WUDHRT6635	WUDHRT7439

CONSTRUCTION DETAILS



HEAD JAMB AND SILL - DIRECT GLAZE



JAMB - DIRECT GLAZE

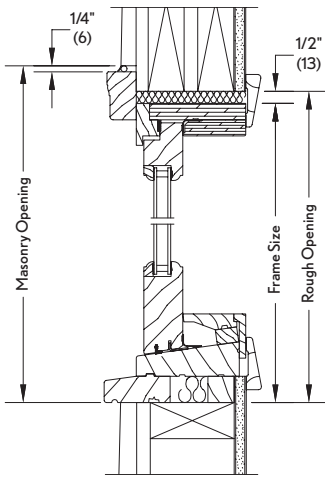
NOTES:

- Elevations shown represent standard transoms without subsill. Add 15/16" (24) for direct glaze and 1 3/32" (28) for in sash to the rough opening height for standalone unit.
- Construction details without subsill not shown.

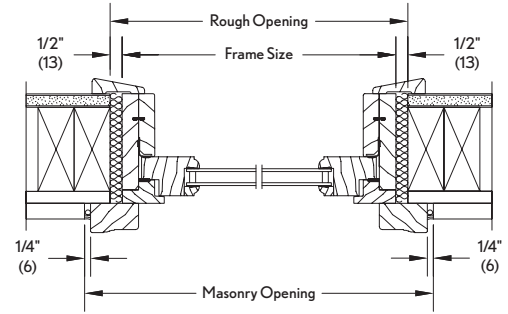
Wood Ultimate Double Hung Round Top: **WUDHRT**

WOOD ULTIMATE DOUBLE HUNG ROUND TOP

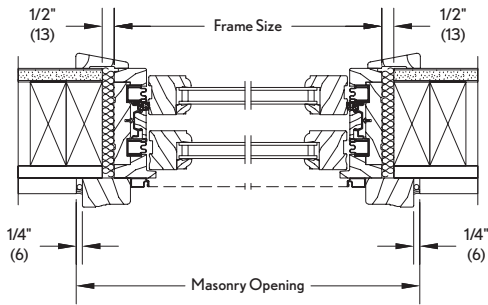
CONSTRUCTION DETAILS



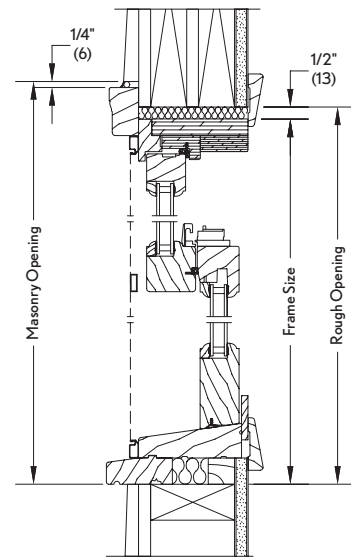
15/8" SASH
HEAD JAMB AND SILL - PICTURE



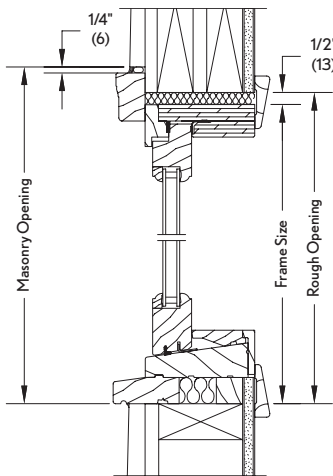
15/8" SASH
JAMB - PICTURE



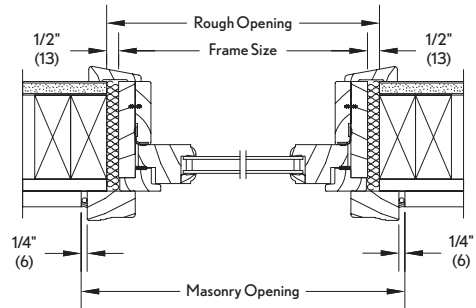
JAMB - OPERATOR



HEAD JAMB AND SILL - OPERATOR



15/8" SASH
HEAD JAMB AND SILL - TRANSOM



15/8" SASH
JAMB - TRANSOM

WOOD ULTIMATE DOUBLE HUNG ROUND TOP

CONSTRUCTION DETAILS

WOOD ULTIMATE DOUBLE/SINGLE HUNG ROUND TOP

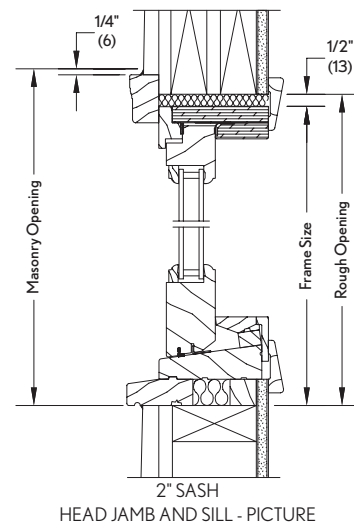
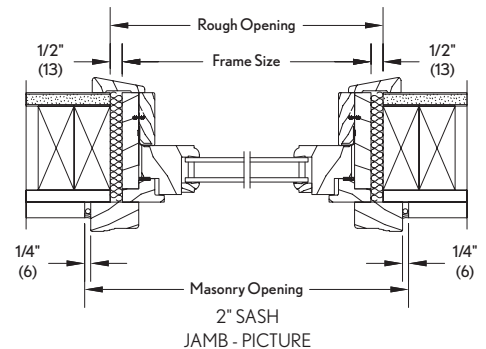
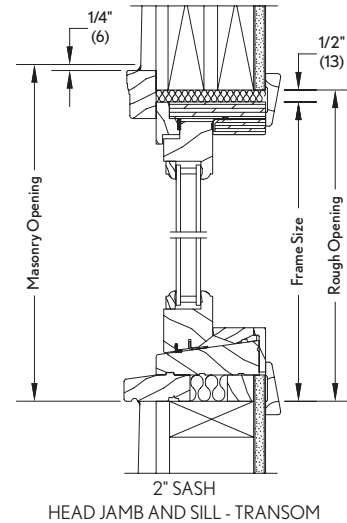
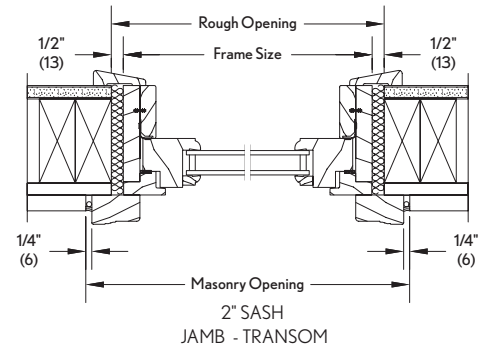
ENERGY DATA	U-Factor	SHGC	VT	CR	ENERGY STAR®
11/16" Insulating Glass Air	0.45	0.54	0.57	42	
11/16" Insulating Glass Air	0.45	0.54	0.57	43	
11/16" Insulating Glass Air LoE-180™	0.33	0.48	0.55	52	
11/16" Insulating Glass Air LoE-180™	0.33	0.48	0.55	51	
11/16" Insulating Glass Argon LoE-180™	0.30	0.48	0.55	54	N
11/16" Insulating Glass Argon LoE-180™	0.30	0.48	0.55	55	N
11/16" Insulating Glass Argon LoE-180™ w/Combination	0.22	0.43	0.50	63	N
11/16" Insulating Glass Argon LoE-180™ w/Combination	0.21	0.43	0.50	64	N
11/16" Insulating Glass LoE ² -272® Air	0.33	0.29	0.50	51	SC
11/16" Insulating Glass LoE ² -272® Air	0.32	0.29	0.50	53	NC, SC
11/16" Insulating Glass LoE ² -272® Argon	0.29	0.29	0.50	54	N, NC, SC
11/16" Insulating Glass LoE ² -272® Argon	0.29	0.29	0.50	56	N, NC, SC
11/16" Insulating Glass LoE ² -272® Argon w/Combination	0.21	0.29	0.46	65	N, NC, SC
11/16" Insulating Glass LoE ² -272® Argon w/Combination	0.21	0.29	0.46	66	N, NC, SC
11/16" Insulating Glass LoE ³ 366® Air	0.32	0.20	0.45	52	NC, SC, S
11/16" Insulating Glass LoE ³ 366® Air	0.32	0.20	0.45	53	NC, SC, S
11/16" Insulating Glass LoE ³ 366® Argon	0.29	0.19	0.45	55	N, NC, SC, S
11/16" Insulating Glass LoE ³ 366® Argon	0.28	0.19	0.45	56	N, NC, SC, S
11/16" Insulating Glass LoE ³ 366® Argon w/Combination	0.21	0.21	0.41	65	N, NC, SC, S
11/16" Insulating Glass LoE ³ 366® Argon w/Combination	0.21	0.21	0.41	66	N, NC, SC, S

WOOD ULTIMATE DOUBLE PICTURE 1 5/8" ROUND TOP

ENERGY DATA	U-Factor	SHGC	VT	CR	ENERGY STAR
11/16" Insulating Glass Air	0.44	0.58	0.62	44	
11/16" Insulating Glass Air LoE-180™	0.33	0.52	0.59	54	
11/16" Insulating Glass Argon LoE-180™	0.29	0.53	0.59	57	N
11/16" Insulating Glass LoE ² -272® Air	0.31	0.32	0.54	55	NC
11/16" Insulating Glass LoE ² -272® Argon	0.27	0.31	0.54	59	N, NC
11/16" Insulating Glass LoE ³ 366® Air	0.30	0.21	0.49	56	N, NC, SC, S
11/16" Insulating Glass LoE ³ 366® Argon	0.27	0.21	0.49	59	N, NC, SC, S

WOOD ULTIMATE DOUBLE HUNG PICTURE 2" ROUND TOP

ENERGY DATA	U-Factor	SHGC	VT	CR	ENERGY STAR
1" Insulating Glass Air	0.43	0.54	0.59	45	
1" Insulating Glass Air LoE-180™	0.32	0.49	0.57	55	N
1" Insulating Glass Argon LoE-180™	0.29	0.49	0.57	58	N
1" Insulating Glass LoE ² -272® Air	0.31	0.30	0.52	56	NC, SC
1" Insulating Glass LoE ² -272® Argon	0.27	0.30	0.52	60	N, NC, SC
1" Insulating Glass LoE ³ 366® Air	0.30	0.20	0.47	57	N, NC, SC, S
1" Insulating Glass LoE ³ 366® Argon	0.27	0.20	0.47	60	N, NC, SC, S
1" Tri-Pane LoE-180™ Argon LoE-180™	0.22	0.42	0.51	65	N
1" Tri-Pane LoE-180™ Krypton-Argon LoE-180™	0.20	0.42	0.51	67	N
1" Tri-Pane LoE ² -272® Argon LoE ² -272®	0.21	0.26	0.42	67	N, NC, SC, S
1" Tri-Pane LoE ² -272® Krypton-Argon LoE ² -272®	0.19	0.26	0.42	69	N, NC, SC, S
1" Tri-Pane LoE ³ 366® Argon LoE-180™	0.22	0.19	0.41	66	N, NC, SC, S
1" Tri-Pane LoE ³ 366® Krypton-Argon LoE-180™	0.19	0.18	0.41	68	N, NC, SC, S



CLAD ULTIMATE DOUBLE HUNG ROUND TOP

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES DIRECT GLAZE

Rgh. Opg. (mm)	2-2 3/8 (670)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)
Rgh. Opg Rad. (mm)	2-0 1/2 (622)	2-0 1/2 (622)	2-6 1/2 (775)	2-6 1/2 (775)	2-6 1/2 (775)	3-4 1/2 (1029)	3-4 1/2 (1029)
Rgh. Opg. (mm)	1-0 1/2 (318)	1-1 7/32 (183)	0-7 7/8 (200)	0-7 3/16 (183)	0-6 1/2 (165)	0-7 11/16 (195)	0-6 1/2 (165)
Rgh. Opg. Spkts. (mm)	0-8 5/8 (219)	0-7 7/32 (336)	1-1 7/8 (352)	1-1 3/16 (335)	1-0 1/2 (318)	1-1 1/16 (348)	1-0 1/2 (318)
	CUDHRT2511	CUDHRT2911	CUDHRT3111	CUDHRT3311	CUDHRT3511	CUDHRT3711	CUDHRT4111
	1-6 1/2 (470)	1-1 7/32 (336)	1-1 7/8 (352)	1-1 3/16 (335)	1-0 1/2 (318)	1-1 1/16 (348)	1-0 1/2 (318)
	1-2 5/8 (371)	0-7 7/32 (336)	1-1 7/8 (352)	1-1 3/16 (335)	1-0 1/2 (318)	1-1 1/16 (348)	1-0 1/2 (318)
	CUDHRT2519	CUDHRT2919	CUDHRT3119	CUDHRT3319	CUDHRT3519	CUDHRT3719	CUDHRT4119
	2-0 1/2 (622)	1-7 7/32 (488)	1-7 7/8 (505)	1-7 3/16 (487)	1-6 1/2 (470)	1-7 1/16 (500)	1-6 1/2 (470)
	1-8 5/8 (524)	0-7 7/32 (336)	1-7 7/8 (505)	1-7 3/16 (487)	1-6 1/2 (470)	1-7 1/16 (500)	1-6 1/2 (470)
	CUDHRT2523	CUDHRT2923	CUDHRT3123	CUDHRT3323	CUDHRT3523	CUDHRT3723	CUDHRT4123
	3-0 1/2 (927)	2-7 7/32 (793)	2-7 7/8 (810)	2-7 3/16 (792)	2-6 1/2 (775)	2-7 11/16 (805)	2-6 1/2 (775)
	2-8 5/8 (829)	0-7 7/32 (336)	2-7 7/8 (810)	2-7 3/16 (792)	2-6 1/2 (775)	2-7 11/16 (805)	2-6 1/2 (775)
	CUDHRT2535	CUDHRT2935	CUDHRT3135	CUDHRT3335	CUDHRT3535	CUDHRT3735	CUDHRT4135
	4-0 1/2 (1232)	3-7 7/32 (1098)	3-7 7/8 (1114)	3-7 3/16 (1097)	3-6 1/2 (1080)	3-7 11/16 (1110)	3-6 1/2 (1080)
	3-8 5/8 (1133)	0-7 7/32 (336)	3-7 7/8 (1114)	3-7 3/16 (1097)	3-6 1/2 (1080)	3-7 11/16 (1110)	3-6 1/2 (1080)
	CUDHRT2547	CUDHRT2947	CUDHRT3147	CUDHRT3347	CUDHRT3547	CUDHRT3747	CUDHRT4147
	5-0 1/2 (1537)	4-7 7/32 (1403)	4-7 7/8 (1419)	4-7 3/16 (1402)	4-6 1/2 (1384)	4-7 11/16 (1414)	4-6 1/2 (1384)
	4-8 5/8 (1438)	0-7 7/32 (336)	4-7 7/8 (1419)	4-7 3/16 (1402)	4-6 1/2 (1384)	4-7 11/16 (1414)	4-6 1/2 (1384)
	CUDHRT2559	CUDHRT2959	CUDHRT3159	CUDHRT3359	CUDHRT3559	CUDHRT3759	CUDHRT4159
	6-0 1/2 (1842)	5-7 7/32 (1707)	5-7 7/8 (1724)	5-7 3/16 (1707)	5-6 1/2 (1689)	5-7 11/16 (1719)	5-6 1/2 (1689)
	5-8 5/8 (1743)	0-7 7/32 (336)	5-7 7/8 (1724)	5-7 3/16 (1707)	5-6 1/2 (1689)	5-7 11/16 (1719)	5-6 1/2 (1689)
	CUDHRT2571	CUDHRT2971	CUDHRT3171	CUDHRT3371	CUDHRT3571	CUDHRT3771	CUDHRT4171














































NOTES:

- Please contact your local Marvin® representative for masonry openings that include casings and subsills.





Clad Ultimate Double Hung Round Top: **CUDHRT**

CLAD ULTIMATE DOUBLE HUNG ROUND TOP

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES DIRECT GLAZE

Rgh. Opg. (mm)	3-10 3/8 (1178)	4-3 3/4 (1314)	4-11 3/4 (1518)	5-7 3/4 (1721)	6-3 3/4 (1924)
Rgh. Opg Rad. (mm)	3-4 1/2 (1029)	3-4 1/2 (1029)	4-6 1/2 (1384)	6-0 1/2 (1842)	6-0 1/2 (1842)
Rgh. Opg. (mm)	1-6 1/2 (470)				
Rgh. Opg Rad. (mm)	0-11 7/32 (285)				
					
	CUDHRT4519	CUDHRT5119	CUDHRT5919	CUDHRT6719	CUDHRT7519
Rgh. Opg. (mm)	2-0 1/2 (622)				
Rgh. Opg Rad. (mm)	1-5 7/32 (437)				
					
	CUDHRT4523	CUDHRT5123	CUDHRT5923	CUDHRT6723	CUDHRT7523
Rgh. Opg. (mm)	3-0 1/2 (927)				
Rgh. Opg Rad. (mm)	2-5 7/32 (742)				
					
	CUDHRT4535	CUDHRT5135	CUDHRT5935	CUDHRT6735	CUDHRT7535
Rgh. Opg. (mm)	4-0 1/2 (1232)				
Rgh. Opg Rad. (mm)	3-5 7/32 (1047)				
					
	CUDHRT4547	CUDHRT5147	CUDHRT5947	CUDHRT6747	CUDHRT7547
Rgh. Opg. (mm)	5-0 1/2 (1537)				
Rgh. Opg Rad. (mm)	4-5 7/32 (1352)				
					
	CUDHRT4559	CUDHRT5159	CUDHRT5959	CUDHRT6759	CUDHRT7559
Rgh. Opg. (mm)	6-0 1/2 (1842)				
Rgh. Opg Rad. (mm)	5-5 7/32 (1657)				
					
	CUDHRT4571	CUDHRT5171	CUDHRT5971	CUDHRT6771	CUDHRT7571
Rgh. Opg. (mm)					
Rgh. Opg Rad. (mm)					
					
	CUDHRT4595	CUDHRT5195	CUDHRT5995	CUDHRT6795	CUDHRT7595
Rgh. Opg. (mm)					
Rgh. Opg Rad. (mm)					
					
	CUDHRT4599	CUDHRT5199	CUDHRT5999	CUDHRT6799	CUDHRT7599
Rgh. Opg. (mm)					
Rgh. Opg Rad. (mm)					
					
	CUDHRT4599	CUDHRT5199	CUDHRT5999	CUDHRT6799	CUDHRT7599

CLAD ULTIMATE DOUBLE HUNG RT29 ELLIPTICAL STANDARD SIZES DIRECT GLAZE











































Rgh. Opg. (mm)	4-3 3/4 (1314)	4-11 3/4 (1518)	5-7 3/4 (1721)	6-3 3/4 (1924)
Rgh. Opg Rad. (mm)	1-5 5/16 (456)			
				
	CUDHRT5118	CUDHRT5918	CUDHRT6718	CUDHRT7518

NOTES:

- Please contact your local Marvin® representative for masonry openings that include casings and subsills.













CLAD ULTIMATE DOUBLE HUNG ROUND TOP

RT6 EYEBROW ABOVE SPRINGLINE STANDARD SIZES OPERATORS












Rgh. Opg. (mm)	2-2 3/8 (670)	2-6 3/8 (772)	2-10 3/8 (873)	3-2 3/8 (975)	3-6 3/8 (1076)	3-10 3/8 (1178)
Rgh. Opg Rad. (mm)	2-0 1/2 (622)	2-0 1/2 (622)	2-6 1/2 (775)	3-4 1/2 (1029)	3-4 1/2 (1029)	3-4 1/2 (1029)
Rgh. Opg. (mm)	3-4 1/2 (1029)	3-5 29/32 (692)	3-5 31/32 (1045)	3-5 1/2 (1054)	3-6 21/32 (1083)	3-7 15/16 (1116)
Rgh. Opg. Spln. (mm)	3-0 21/32 (931)	3-0 5/8 (507)	3-0 5/8 (931)	3-0 21/32 (932)	3-0 21/32 (933)	3-0 5/8 (931)
						
	CUDHRT2014	CUDHRT2414	CUDHRT2814	CUDHRT3214	CUDHRT3614	CUDHRT4014
Rgh. Opg. (mm)	3-8 1/2 (1130)	3-9 29/32 (1168)	3-9 31/32 (1167)	3-9 1/2 (1156)	3-10 21/32 (1185)	3-11 15/16 (1217)
Rgh. Opg. Spln. (mm)	3-4 21/32 (1033)	3-4 5/8 (1032)	3-4 5/8 (1032)	3-4 21/32 (1033)	3-4 21/32 (1033)	3-4 5/8 (1032)
						
	CUDHRT2016	CUDHRT2416	CUDHRT2816	CUDHRT3216	CUDHRT3616	CUDHRT4016
Rgh. Opg. (mm)	4-0 1/2 (1232)	4-1 29/32 (1267)	4-1 31/32 (1269)	4-1 1/2 (1258)	4-2 21/32 (1286)	4-3 15/16 (1319)
Rgh. Opg. Spln. (mm)	3-8 21/32 (1134)	3-8 5/8 (1133)	3-8 5/8 (1133)	3-8 21/32 (1135)	3-8 21/32 (1134)	3-8 5/8 (1134)
						
	CUDHRT2018	CUDHRT2418	CUDHRT2818	CUDHRT3218	CUDHRT3618	CUDHRT4018
Rgh. Opg. (mm)	4-4 1/2 (1334)	4-5 29/32 (1369)	4-5 31/32 (1370)	4-5 1/2 (1359)	4-6 21/32 (1388)	4-7 15/16 (1421)
Rgh. Opg. Spln. (mm)	4-0 21/32 (1236)	4-0 5/8 (1235)	4-0 5/8 (1235)	4-0 21/32 (1236)	4-0 21/32 (1236)	4-0 5/8 (1235)
						
	CUDHRT2020	CUDHRT2420	CUDHRT2820	CUDHRT3220	CUDHRT3620	CUDHRT4020
Rgh. Opg. (mm)	4-8 1/2 (1435)	4-9 29/32 (1471)	4-9 31/32 (1472)	4-9 1/2 (1461)	4-10 21/32 (1489)	4-11 15/16 (1522)
Rgh. Opg. Spln. (mm)	4-4 21/32 (1337)	4-4 5/8 (1337)	4-4 5/8 (1337)	4-4 21/32 (1338)	4-4 21/32 (1337)	4-4 5/8 (1337)
						
	CUDHRT2022	CUDHRT2422	CUDHRT2822	CUDHRT3222	CUDHRT3622	CUDHRT4022
Rgh. Opg. (mm)	5-0 1/2 (1537)	5-1 29/32 (1572)	5-1 31/32 (1573)	5-1 1/2 (1562)	5-2 21/32 (1591)	5-3 15/16 (1624)
Rgh. Opg. Spln. (mm)	4-8 21/32 (1439)	4-8 5/8 (1438)	4-8 5/8 (1438)	4-8 21/32 (1439)	4-8 21/32 (1439)	4-8 5/8 (1439)
						
	CUDHRT2024	CUDHRT2424	CUDHRT2824	CUDHRT3224	CUDHRT3624	CUDHRT4024
Rgh. Opg. (mm)	5-4 1/2 (1638)	5-5 29/32 (1674)	5-5 31/32 (1675)	5-5 1/2 (1664)	5-6 21/32 (1693)	5-7 15/16 (1725)
Rgh. Opg. Spln. (mm)	5-0 21/32 (1541)	5-0 5/8 (1540)	5-0 5/8 (1540)	5-0 21/32 (1541)	5-0 21/32 (1541)	5-0 5/8 (1540)
						
	CUDHRT2026	CUDHRT2426	CUDHRT2826	CUDHRT3226	CUDHRT3626	CUDHRT4026

CLAD ULTIMATE DOUBLE HUNG ROUND TOP

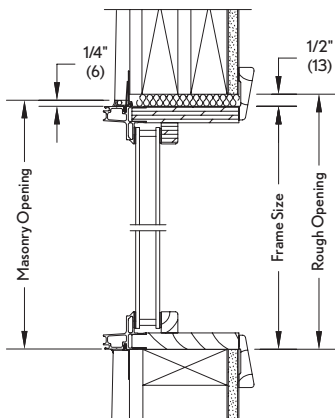
CLAD ULTIMATE DOUBLE HUNG TRANSOM SERIES
RT2 TRUE ROUND ABOVE SPRINGLINE STANDARD SIZES IN SASH

Rgh. Opg. (mm)	2-2 3/8 (670)	2-6 3/8 (722)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)
Rgh. Opg Rad. (mm)	1-1 3/16 (335)	1-3 3/16 (386)	1-4 3/16 (411)	1-5 3/16 (436)	1-6 3/16 (462)	1-7 3/16 (487)
Rgh. Opg. (mm) Rgh. Opg. Spth. (mm)	1-3 3/4 (400) 0-2 9/16 (65)	1-5 3/4 (451) 0-2 9/16 (65)	1-6 3/4 (476) 0-2 9/16 (65)	1-7 3/4 (502) 0-2 9/16 (65)	1-8 3/4 (527) 0-2 9/16 (65)	1-9 3/4 (552) 0-2 9/16 (65)
	 CUDHRT2015	 CUDHRT2417	 CUDHRT2618	 CUDHRT2819	 CUDHRT3020	 CUDHRT3221
Rgh. Opg. (mm)	3-6 3/8 (1076)	3-10 3/8 (1178)	4-3 3/4 (1314)	4-11 3/4 (1518)	5-7 3/4 (1721)	6-3 3/4 (1924)
Rgh. Opg Rad. (mm)	1-9 3/16 (538)	1-11 3/16 (589)	2-1 7/8 (657)	2-5 7/8 (759)	2-9 7/8 (860)	3-1 7/8 (962)
Rgh. Opg. (mm) Rgh. Opg. Spth. (mm)	1-11 3/4 (603) 0-2 9/16 (65)	2-1 3/4 (654) 0-2 9/16 (65)	2-4 7/16 (722) 0-2 9/16 (65)	2-8 7/16 (824) 0-2 9/16 (65)	3-0 7/16 (926) 0-2 9/16 (65)	3-4 7/16 (1027) 0-2 9/16 (65)
	 CUDHRT3623	 CUDHRT4025	 CUDHRT5027	 CUDHRT5831	 CUDHRT6635	 CUDHRT7439

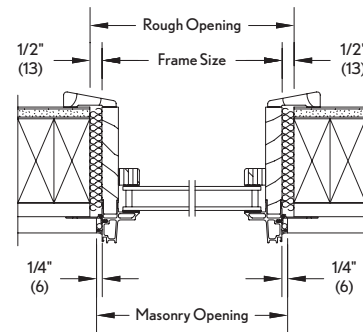
CLAD ULTIMATE DOUBLE HUNG
RT1 TRUE HALF CIRCLE STANDARD SIZES DIRECT GLAZE

Rgh. Opg. (mm)	2-6 3/8 (772)	2-8 3/8 (822)	2-10 3/8 (873)	3-0 3/8 (924)	3-2 3/8 (975)	3-6 3/8 (1076)
	1-3 3/16 (386)	1-4 3/16 (411)	1-5 3/16 (437)	1-6 3/16 (462)	1-7 3/16 (487)	1-9 3/16 (538)
	 CUDHRT2914	 CUDHRT3115	 CUDHRT3316	 CUDHRT3517	 CUDHRT3718	 CUDHRT4120
Rgh. Opg. (mm)	3-10 3/8 (1178)	4-3 3/4 (1314)	4-11 3/4 (1518)	5-7 3/4 (1721)	6-3 3/4 (1924)	
	1-11 3/16 (589)	2-1 7/8 (657)	2-5 7/8 (759)	2-9 7/8 (860)	3-1 7/8 (962)	
	 CUDHRT4522	 CUDHRT5025	 CUDHRT5828	 CUDHRT6632	 CUDHRT7437	

CONSTRUCTION DETAILS



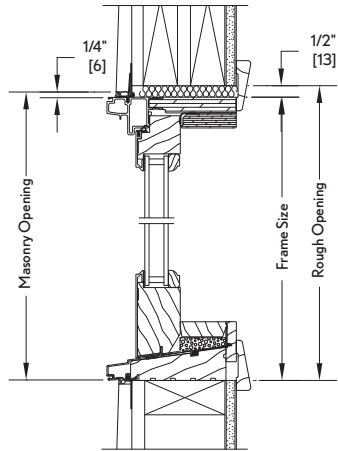
HEAD JAMB AND SILL - DIRECT GLAZE



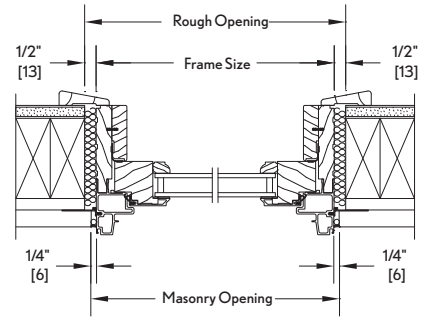
JAMB - DIRECT GLAZE

CLAD ULTIMATE DOUBLE HUNG ROUND TOP

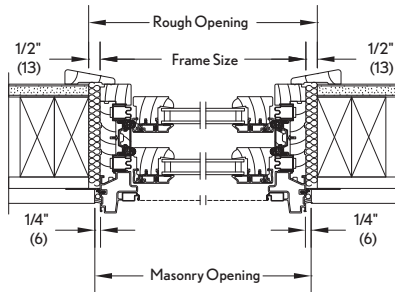
CONSTRUCTION DETAILS



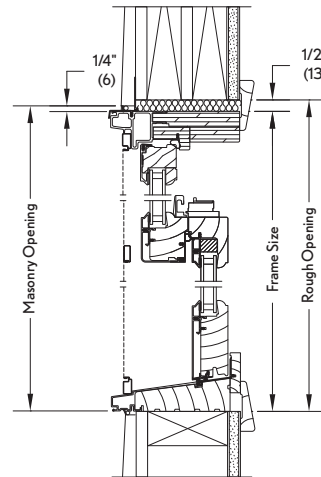
HEAD JAMB AND SILL - PICTURE



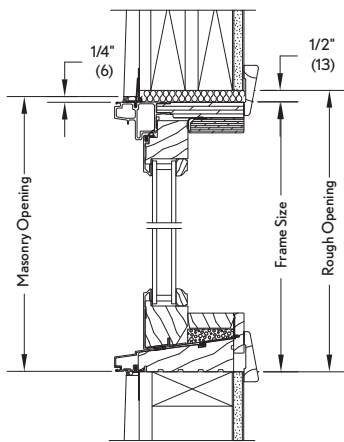
JAMB - PICTURE



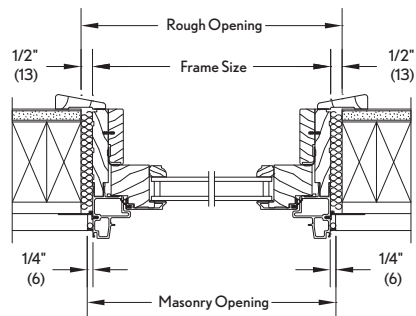
JAMB - OPERATOR



HEAD JAMB AND SILL - OPERATOR



HEAD JAMB AND SILL - TRANSOM



JAMB - TRANSOM

CLAD ROUND TOP

CLAD ULTIMATE DOUBLE HUNG PICTURE 2" ROUND TOP

ENERGY DATA	U-Factor	SHGC	VT	CR	ENERGY STAR®
1" Insulating Glass Air	0.46	0.56	0.60	44	
1" Insulating Glass LoE ² -272 [®] Air	0.33	0.31	0.53	55	
1" Insulating Glass LoE ² -272 [®] Argon	0.30	0.31	0.53	58	N, NC
1" Insulating Glass LoE ³ 366 [®] Air	0.33	0.21	0.47	55	SC, S
1" Insulating Glass LoE ³ 366 [®] Argon	0.29	0.21	0.47	58	N, NC, SC, S

CLAD ULTIMATE DOUBLE/SINGLE HUNG ROUND TOP

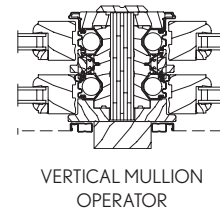
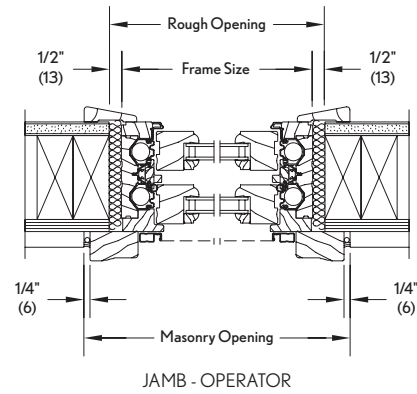
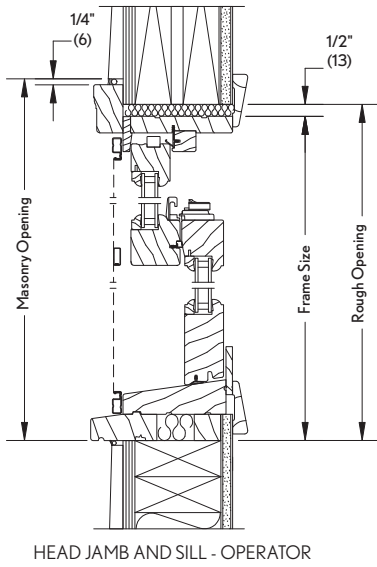
ENERGY DATA	U-Factor	SHGC	VT	CR	ENERGY STAR
11/16" Insulating Glass Air	0.47	0.56	0.58	42	
11/16" Insulating Glass LoE ² -272 [®] Air	0.34	0.30	0.51	52	SC
11/16" Insulating Glass LoE ² -272 [®] Argon	0.31	0.30	0.51	55	NC, SC
11/16" Insulating Glass LoE ³ 366 [®] Air	0.34	0.20	0.46	52	SC, S
11/16" Insulating Glass LoE ³ 366 [®] Argon	0.30	0.20	0.46	56	N, NC, SC, S

CLAD ULTIMATE DOUBLE HUNG TRANSOM ROUND TOP

ENERGY DATA	U-Factor	SHGC	VT	CR	ENERGY STAR
1" Insulating Glass Air	0.46	0.57	0.62	44	
1" Insulating Glass LoE ² -272 [®] Air	0.33	0.31	0.54	55	
1" Insulating Glass LoE ² -272 [®] Argon	0.30	0.31	0.54	58	N, NC
1" Insulating Glass LoE ³ 366 [®] Air	0.33	0.21	0.49	55	SC, S
1" Insulating Glass LoE ³ 366 [®] Argon	0.29	0.21	0.49	59	N, NC, SC, S

WOOD ULTIMATE DOUBLE HUNG MAGNUM

CONSTRUCTION DETAILS



WOOD MINIMUM AND MAXIMUM MEASUREMENTS

GLASS TYPE	Minimum RO Width	Minimum RO Height	Maximum RO Width	Maximum RO Height	Maximum Glass Size per Sash
Double Hung					
Insulating Glass	26 3/8" (670)*	48 7/8" (1241)*	66 3/8" (1686)	128 7/8" (3273)	25 Sq. Feet
Transom					
Insulating Glass	14 3/8" (365)	14 3/16" (360)	106" (2692)	60" (1524)	25 Sq. Feet
Picture					
1" Insulating Glass	14 3/8" (365)	15 1/2" (394)	121" (3073)	128 7/8" (3273)	60 Sq. Feet

Standard glass thickness is determined by Marvin. For custom glass options, contact your Marvin representative.
 * Minimum RO width of 16 3/8" is available with a minimum RO height of 64 7/8".

WOOD ULTIMATE DOUBLE HUNG MAGNUM / SINGLE HUNG MAGNUM

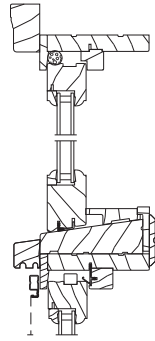
ENERGY DATA	U-Factor	SHGC	VT	CR	ENERGY STAR®
11/16" Insulating Glass Air	0.45	0.55	0.58	43	
11/16" Insulating Glass Air LoE-180™	0.34	0.49	0.55	52	
11/16" Insulating Glass Argon LoE-180™	0.31	0.49	0.55	55	N
11/16" Insulating Glass Argon LoE-180™ w/Combination	0.22	0.44	0.51	72	N
11/16" Insulating Glass LoE ² -272® Air	0.32	0.30	0.50	53	NC, SC
11/16" Insulating Glass LoE ² -272® Argon	0.29	0.29	0.50	56	N, NC, SC
11/16" Insulating Glass LoE ² -272® Argon w/Combination	0.21	0.29	0.46	73	N, NC, SC
11/16" Insulating Glass LoE ³ 366® Air	0.32	0.20	0.45	53	NC, SC, S
11/16" Insulating Glass LoE ³ 366® Argon	0.28	0.19	0.45	57	N, NC, SC, S
11/16" Insulating Glass LoE ³ 366® Argon w/Combination	0.21	0.21	0.41	74	N, NC, SC, S
7/8" Tri-Pane LoE-180™ Argon LoE-180™	0.26	0.40	0.49	63	N, NC
7/8" Tri-Pane LoE-180™ Krypton-Argon LoE-180™	0.23	0.40	0.49	66	N, NC
7/8" Tri-Pane LoE ² -272® Argon LoE ² -272®	0.24	0.25	0.40	64	N, NC, SC, S
7/8" Tri-Pane LoE ² -272® Krypton-Argon LoE ² -272®	0.22	0.25	0.40	67	N, NC, SC, S
7/8" Tri-Pane LoE ³ 366® Argon LoE-180™	0.25	0.18	0.40	64	N, NC, SC, S
7/8" Tri-Pane LoE ³ 366® Krypton-Argon LoE-180™	0.22	0.18	0.40	67	N, NC, SC, S

NOTES:

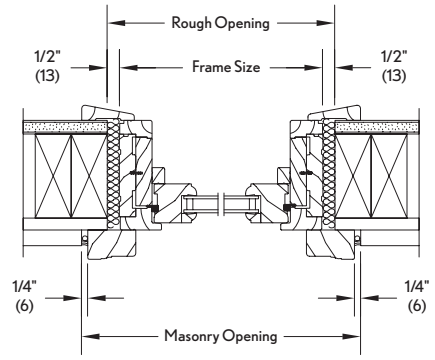
- Sizes for Wood Ultimate Double Hung Magnum windows are manufactured to your specifications. For additional information, contact your local Marvin® representative.

WOOD ULTIMATE DOUBLE HUNG MAGNUM

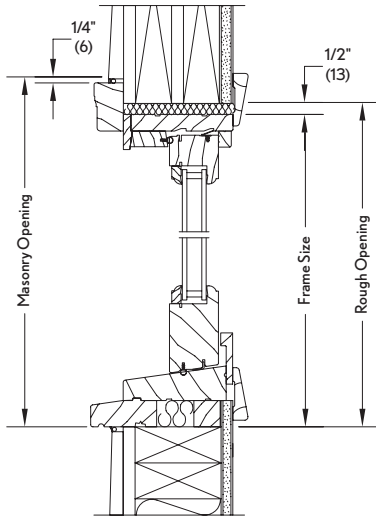
CONSTRUCTION DETAILS



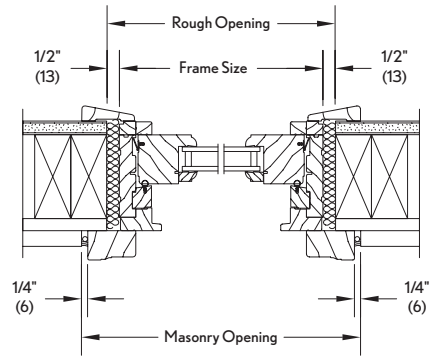
TRANSOM MULLED
OVER WOOD ULTIMATE DOUBLE HUNG MAGNUM



HEAD JAMB AND SILL - TRANSOM



HEAD JAMB AND SILL - PICTURE



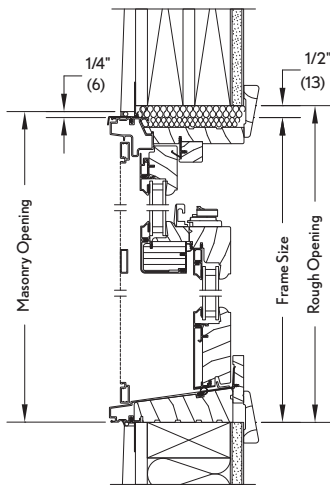
JAMB - PICTURE

MULTIPLE ASSEMBLY CONVERSIONS

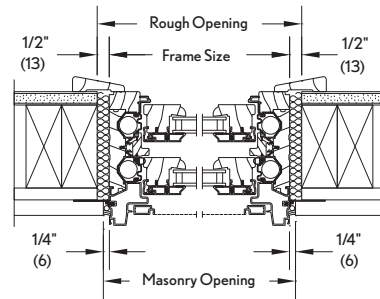
ROUGH OPENING		MASONRY OPENING WITH BMC	
Width	Height	Width	Height
Add all frame sizes plus 1" (25)	Add frame sizes plus 1/2" (13)	Add all frame sizes plus 3 1/8" (79)	Add frame sizes plus 19/16" (39)

CLAD ULTIMATE DOUBLE HUNG MAGNUM

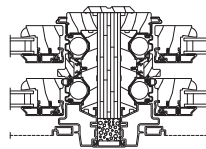
CONSTRUCTION DETAILS (4 9/16" WALL SHOWN)



HEAD JAMB AND SILL - OPERATOR



JAMB - OPERATOR



VERTICAL MULLION
OPERATOR

CLAD MINIMUM AND MAXIMUM MEASUREMENTS

GLASS TYPE	Minimum RO Width	Minimum RO Height	Maximum RO Width	Maximum RO Height	Maximum Glass Size per Sash
Double Hung					
Insulating Glass	26 3/8" (670)*	48 7/8" (1241)*	66 3/8" (1686)	128 7/8" (3273)	25 Sq. Feet
Transom					
Insulating Glass	14 3/8" (365)	14 3/16" (360)	106" (2692)	60" (1524)	25 Sq. Feet
Picture					
1" Insulating Glass	14 3/8" (365)	15 1/2" (394)	121" (3073)	128 7/8" (3273)	60 Sq. Feet

Standard glass thickness is determined by Marvin®. For custom glass options, contact your Marvin representative.

* Minimum RO width of 16 3/8" is available with a minimum RO height of 64 7/8".

NOTES:

- Sizes for Clad Ultimate Double Hung Magnum windows are manufactured to your specifications. For additional information, contact your local Marvin® representative.
- Please contact your local Marvin representative for masonry openings that include casings and subsills.

CLAD ULTIMATE DOUBLE HUNG MAGNUM

CLAD ULTIMATE DOUBLE HUNG MAGNUM / SINGLE HUNG MAGNUM

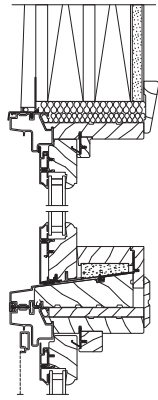
ENERGY DATA	U-Factor	SHGC	VT	CR	ENERGY STAR®
11/16" Insulating Glass Air	0.46	0.55	0.58	42	
11/16" Insulating Glass Air LoE-180™	0.35	0.50	0.56	51	
11/16" Insulating Glass Argon LoE-180™	0.32	0.50	0.56	54	N
11/16" Insulating Glass LoE ² -272 [®] Air	0.34	0.30	0.51	52	SC
11/16" Insulating Glass LoE ² -272 [®] Air w/Combination	0.26	0.30	0.47	69	N, NC, SC
11/16" Insulating Glass LoE ² -272 [®] Argon	0.30	0.30	0.51	56	N, NC, SC
11/16" Insulating Glass LoE ² -272 [®] Argon w/Combination	0.24	0.29	0.47	71	N, NC, SC
11/16" Insulating Glass LoE ³ 366 [®] Air	0.33	0.20	0.46	53	SC, S
11/16" Insulating Glass LoE ³ 366 [®] Air w/Combination	0.26	0.22	0.42	70	N, NC, SC, S
11/16" Insulating Glass LoE ³ 366 [®] Argon	0.30	0.20	0.46	56	N, NC, SC, S
7/8" Tri-Pane LoE-180™ Argon LoE-180™	0.27	0.41	0.49	62	N
7/8" Tri-Pane LoE-180™ Krypton-Argon LoE-180™	0.24	0.41	0.49	65	N
7/8" Tri-Pane LoE ² -272 [®] Argon LoE ² -272 [®]	0.26	0.25	0.41	63	N, NC, SC, S
7/8" Tri-Pane LoE ² -272 [®] Krypton-Argon LoE ² -272 [®]	0.23	0.25	0.41	66	N, NC, SC, S
7/8" Tri-Pane LoE ³ 366 [®] Argon LoE-180™	0.26	0.18	0.40	63	N, NC, SC, S
7/8" Tri-Pane LoE ³ 366 [®] Krypton-Argon LoE-180™	0.23	0.18	0.40	66	N, NC, SC, S

CLAD ULTIMATE DOUBLE HUNG MAGNUM PICTURE

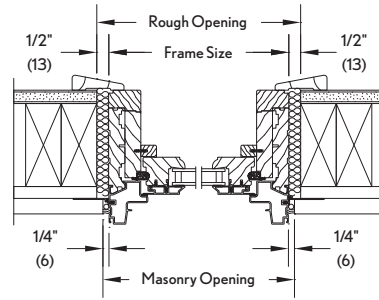
ENERGY DATA	U-Factor	SHGC	VT	CR	ENERGY STAR
1" Insulating Glass Air	0.44	0.56	0.60	46	
1" Insulating Glass Air LoE-180™	0.32	0.49	0.58	56	N
1" Insulating Glass Argon LoE-180™	0.29	0.49	0.58	60	N
1" Insulating Glass LoE ² -272 [®] Air	0.32	0.31	0.53	57	NC
1" Insulating Glass LoE ² -272 [®] Argon	0.28	0.30	0.53	60	N, NC, SC
1" Insulating Glass LoE ³ 366 [®] Air	0.31	0.21	0.47	57	NC, SC, S
1" Insulating Glass LoE ³ 366 [®] Argon	0.28	0.20	0.47	60	N, NC, SC, S
1" Tri-Pane LoE-180™ Argon LoE-180™	0.22	0.42	0.52	69	N
1" Tri-Pane LoE-180™ Krypton-Argon LoE-180™	0.19	0.42	0.52	70	N
1" Tri-Pane LoE ² -272 [®] Argon LoE ² -272 [®]	0.21	0.27	0.43	69	N, NC, SC, S
1" Tri-Pane LoE ² -272 [®] Krypton-Argon LoE ² -272 [®]	0.19	0.27	0.43	70	N, NC, SC, S
1" Tri-Pane LoE ³ 366 [®] Argon LoE-180™	0.21	0.19	0.42	69	N, NC, SC, S
1" Tri-Pane LoE ³ 366 [®] Krypton-Argon LoE-180™	0.19	0.19	0.42	70	N, NC, SC, S

CLAD ULTIMATE DOUBLE HUNG MAGNUM

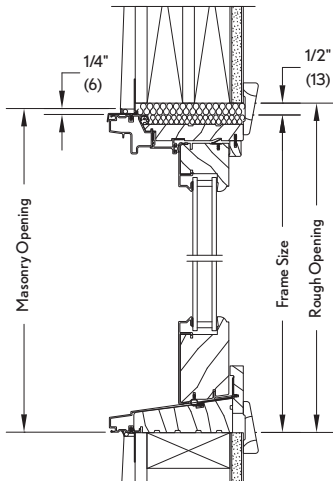
CONSTRUCTION DETAILS (4 9/16" WALL SHOWN)



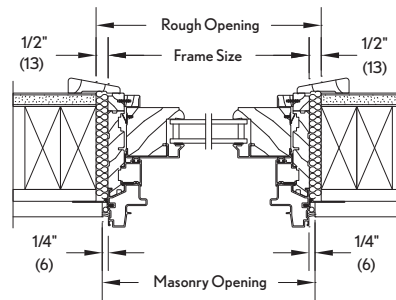
TRANSOM MULLED
OVER CLAD ULTIMATE DOUBLE HUNG MAGNUM



JAMB - TRANSOM



HEAD JAMB AND SILL - PICTURE



JAMB - PICTURE

NOTES:

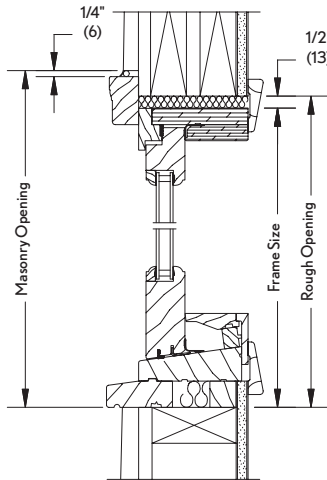
- Sizes for Clad Ultimate Double Hung Magnum windows are manufactured to your specifications. For additional information, contact your local Marvin® representative.
- Please contact your local Marvin representative for masonry openings that include casings and sills.

MULTIPLE ASSEMBLY CONVERSIONS

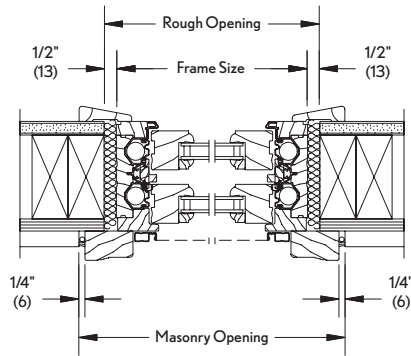
ROUGH OPENING		MASONRY OPENING WITHOUT BMC	
Width	Height	Width	Height
Add all frame sizes plus 1" (25)	Add frame sizes plus 1/2" (13)	Add all frame sizes plus 1/2" (13)	Add frame sizes plus 1/4" (6)

WOOD ULTIMATE DOUBLE HUNG MAGNUM ROUND TOP

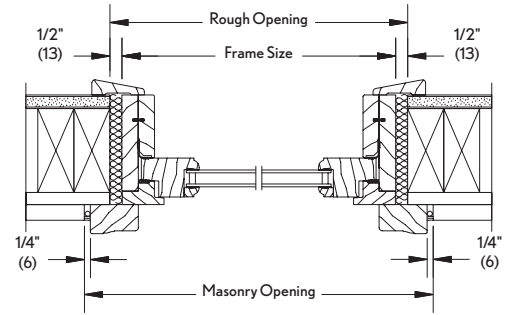
CONSTRUCTION DETAILS



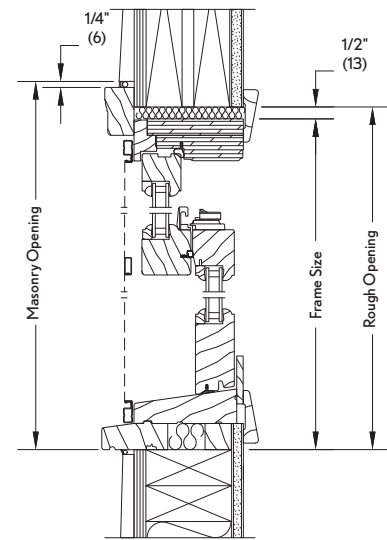
HEAD JAMB AND SILL - 15/8" PICTURE



JAMB - OPERATOR



JAMB - 15/8" PICTURE



HEAD JAMB AND SILL - OPERATOR

WOOD MINIMUM AND MAXIMUM MEASUREMENTS

GLASS TYPE	Minimum RO Width	Minimum RO Height	Maximum RO Width	Maximum RO Height	Maximum Glass Size per Sash
Double Hung					
Insulating Glass	26 3/8" (670)*	48 7/8" (1241)*	66 3/8" (1686)	129 7/8" (3296)	25 Sq. Feet
Transom					
Insulating Glass	14 3/8" (365)	14 3/16" (360)	106" (2692)	60" (1524)	25 Sq. Feet
Picture					
1" Insulating Glass	14 3/8" (365)	15 1/2" (394)	121" (3073)	128 7/8" (3273)	60 Sq. Feet

Standard glass thickness is determined by Marvin. For custom glass options, contact your Marvin representative.

* Minimum RO width of 16 3/8" is available with a minimum RO height of 64 7/8".

WOOD ULTIMATE DOUBLE HUNG MAGNUM ROUND TOP PICTURE 2"

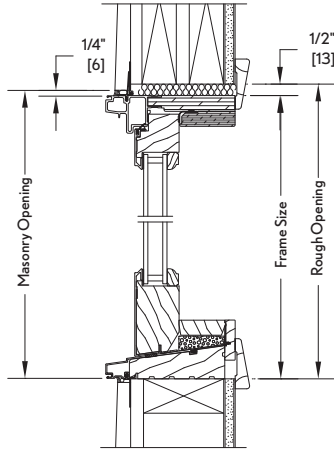
ENERGY DATA	U-Factor	SHGC	VT	CR	ENERGY STAR®
1" Insulating Glass Air	0.43	0.56	0.61	45	
1" Insulating Glass Air LoE-180™	0.32	0.50	0.58	55	N
1" Insulating Glass Argon LoE-180™	0.29	0.51	0.58	58	N
1" Insulating Glass LoE2-272® Air	0.31	0.31	0.53	56	NC, SC
1" Insulating Glass LoE2-272® Argon	0.27	0.30	0.53	59	N, NC, SC
1" Insulating Glass LoE3 366® Air	0.30	0.21	0.48	57	N, NC, SC, S
1" Insulating Glass LoE3 366® Argon	0.27	0.20	0.48	60	N, NC, SC, S
1" Tri-Pane LoE-180™ Argon LoE-180™	0.22	0.44	0.52	65	N
1" Tri-Pane LoE-180™ Krypton-Argon LoE-180™	0.20	0.43	0.52	67	N
1" Tri-Pane LoE2-272® Argon LoE2-272®	0.21	0.27	0.43	67	N, NC, SC, S
1" Tri-Pane LoE2-272® Krypton-Argon LoE2-272®	0.19	0.27	0.43	69	N, NC, SC, S
1" Tri-Pane LoE3 366® Argon LoE-180™	0.21	0.19	0.43	66	N, NC, SC, S
1" Tri-Pane LoE3 366® Krypton-Argon LoE-180™	0.19	0.19	0.43	68	N, NC, SC, S

NOTES:

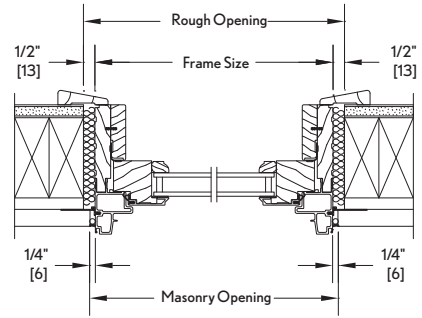
- Sizes for Ultimate Double Hung Magnum Round Top windows are manufactured to your specifications. For additional information, contact your local Marvin® representative.

CLAD ULTIMATE DOUBLE HUNG MAGNUM ROUND TOP

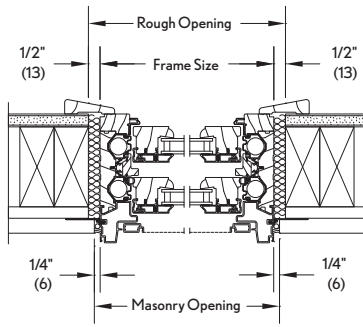
CONSTRUCTION DETAILS



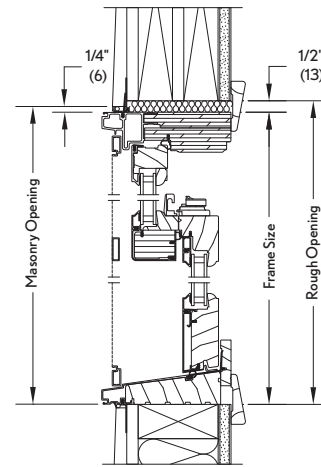
HEAD JAMB AND SILL - 2" PICTURE



JAMB - 2" PICTURE



JAMB - OPERATOR



HEAD JAMB AND SILL - OPERATOR

CLAD MINIMUM AND MAXIMUM MEASUREMENTS

GLASS TYPE	Minimum RO Width	Minimum RO Height	Maximum RO Width	Maximum RO Height	Maximum Glass Size per Sash
Double Hung					
Insulating Glass	26 3/8" (670)*	48 7/8" (1241)*	66 3/8" (1686)	128 5/8" (3265)	25 Sq. Feet
Transom					
Insulating Glass	14 3/8" (365)	14 3/16" (360)	106" (2692)	60" (1524)	25 Sq. Feet
Picture					
1" Insulating Glass	14 3/8" (365)	15 1/2" (394)	121" (3073)	128 7/8" (3273)	60 Sq. Feet

Standard glass thickness is determined by Marvin. For custom glass options, contact your Marvin representative.

* Minimum RO width of 16 3/8" is available with a minimum RO height of 64 7/8".